

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

<b>C Number:</b>	C60015
<b>Lock Date:</b>	Not Entered.
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	06/27/1991

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

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<b>ANIMAL ID:</b> 1	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 618
	<b>DOSE:</b> 0 PPM MALE	<b>DISP:</b> Moribund	<b>HISTO:</b> 870395

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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Mammary Gland	Nose	Pancreas
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

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**MISSING**

Parathyroid Gland	Thymus
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**OBSERVATIONS**

Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC	TGLs = 4-3.1		
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Note: HEPATOCLR CARC	TGLs = 3-1		
Lymph Node	Mesenteric	Polyarteritis	Moderate
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

<b>ANIMAL ID:</b> 2	<b>TRT#:</b> 1 <b>DOSE:</b> 0 PPM MALE	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 870396
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Gallbladder	Mammary Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Intest Large			
Note: THE LYMPHOID NODULE SEEN IN THE SUBMUCOSA OF THE			
Note: CECUM IS CONSIDERED TO BE NORMAL.			
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Mild
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
Note: THE LIVER MASSES WERE TAKEN BY NTP FOR ONCOGENE STUDIES.			
Note: HEPATOCLR ADEN TGLs = 2-2+2.1			
Note: HEPATOCLR CARC TGLs = 1-2.1			
Note: THE LIVER CARCINOMA HAS TRABECULAR FEATURES.			
[ Fatty Change TGLS = 3-2 ]			
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 5-1			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870397

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Gallbladder	Mammary Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
Note: STUDIES.			
Note: FATTY CHANGE TGLs = 7-2			
Note: HEPATOCLR CARC TGLs = 6-2.1			
Note: THE MEDIAN LOBE MASS WAS TAKEN BY NTP FOR ONCOGENE			
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Mesentery		Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 2-9			
Nose		Inflammation	Acute, Minimal
Preputial Gland	Duct	Dilatation	Moderate
[ Dilatation TGLS = 1-6 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Urin Bladder			
Note: SUBMUCOSA OF THE BLADDER WHEN INSTILLING FIXATIVE.			
Note: IN ADDITION, THE COVERING EPITHELIUM IS LIKE THAT IN			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:53

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 3

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870397

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: THE STALK OF THIS STRUCTURE HAS A WASHED OUT APPEARANCE.

Note: THERE APPEARS TO BE A PAPILOMA IN THE LUMEN OF THE

Note: URINARY BLADDER; HOWEVER, I BELIEVE IT IS AN ARTEFACT

Note: POSSIBLY RESULTING FROM STICKING A NEEDLE IN THE

Note: THE REMAINING PORTION OF THE BLADDER.

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

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<b>ANIMAL ID:</b> 4	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870398

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
Lung		Alveolar/Bronchiolar Adenoma	
Note: ONCOGENE STUDIES.			
Note: THE ENTIRE DIAPHRAGMATIC LOBE WAS TAKEN BY NTP FOR			
Note: ALV BRON ADEN TGLs = 2-1			
Preputial Gland	Duct	Dilatation	Moderate
[ Dilatation TGLS = 1-6 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870399

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
Preputial Gland		Inflammation	Chronic Active, Moderate
[ Inflammation TGLS = 1-6 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 1 <b>DOSE:</b> 0 PPM MALE	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 870400
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Gallbladder	Lymph Node - Mesenteric	Mammary Gland	Thymus
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Heart		Inflammation	Chronic Active, Minimal
Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Necrosis	Minimal
Note: HEPATOCLR CARC TGLs = 1-2.1			
Note: STUDIES.			
Note: THE MEDIAN LOBE MASS WAS TAKEN BY NTP FOR ONCOGENE			
Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Histiocyte, Mild
Note: ALV BRON CARC TGLs = 5-1.1			
Note: STUDIES.			
Note: THE DIAPHRAGMATIC MASS WAS TAKEN BY NTP FOR ONCOGENE			
Note: INFILTRAT CELL TGLs = 4-1			
Nose			
Note: THE TEETH ARE ABNORMAL; HOWEVER, THEY ARE NOT A			
Note: PROTOCOL REQUIRED TISSUE WHICH NEEDS TO BE DIAGNOSED.			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:53

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 6

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870400

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: OTHER THAN GREAT DISTENSION WITH SECRETORY MATERIAL.

Note: NO ABNORMALITIES WERE NOTED IN THE SEMINAL VESICLES

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 457

DOSE: 0 PPM MALE

DISP: Interval Sacrifice

HISTO: 853361

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Esophagus	Mammary Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Epididymis		Inflammation	Chronic, Minimal
Kidney	Renal Tubule	Adenoma	
		Inflammation	Chronic, Minimal
Note: A FEW REGENERATING TUBULES WERE NOTED.			
Note: VACUOLATED CYTOPLASM.			
Note: NUMEROUS TUBULES IN THE CORTEX OF THE KIDNEY HAD			
Liver		Fatty Change	Mild
Note: HEPATOCYTES.			
Note: THERE WAS A RANDOM DISTRIBUTION OF VACUOLATION OF			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Nose	Glands	Inflammation	Acute, Minimal
Prostate		Inflammation	Chronic, Minimal
Stomach	Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Chronic, Minimal

Note: THERE WERE SMALL CLUSTERS OF EPITHELIAL CELLS IN THE  
 Note: PEARLS; HOWEVER, THEY WERE ABOVE THE MUSCULARIS  
 Note: MUCOSAE.  
 Note: AT THE JUNCTION OF THE SQUAMOUS AND GLANDULAR STOMACH

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 7

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 0 PPM MALE

**DISP:** Interval Sacrifice

**HISTO:** 853361

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: LAMINA PROPRIA. THE CELLS WERE ARRANGED LIKE SQUAMOUS

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870401

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Islets Panc			
Note: PANCREATIC ISLETS APPEAR TO BE SLIGHTLY LARGER BUT			
Note: ARE PROBABLY STILL WITHIN NORMAL LIMITS.			
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
[ Fatty Change TGLS = 3,4,5-2+2.1 ]			
Sem Ves			
Note: THERE WERE NO ABNORMALITIES IN THE SEMINAL VESICLES,			
Note: EXCEPT DISTENSION WITH NORMAL SECRETION.			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 455

DOSE: 0 PPM MALE

DISP: Interval Sacrifice

HISTO: 853362

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Mammary Gland	Nose
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Mild
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Prostate		Inflammation	Chronic, Minimal
Stomach	Forestomach	Hyperplasia	Minimal

Note: EPITHELIUM AT THE SQUAMOUS GLANDULAR JUNCTION.

Note: A SMALL EPITHELIAL PEARL WAS NOTED BELOW THE SURFACE

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 10

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 455

**DOSE:** 0 PPM MALE

**DISP:** Interval Sacrifice

**HISTO:** 853363

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Nose
Parathyroid Gland	Pituitary Gland	Prostate	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea		

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Ear		Fibrosarcoma	
Note: SARCOMA OF THE EAR.			
Note: FIBROSARC TGLs = 2-6			
Note: MULTINUCLEATE GIANT CELLS WERE NOTED WITHIN THE FIBRO-			
Epididymis		Inflammation	Chronic, Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Basophilic Focus	Moderate
		Fatty Change	Minimal
		Inflammation	Acute, Minimal
		Necrosis	Coagulative, Minimal
Note: [ BASOPH FOCUS ] TGLs = 1-2			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Pancreas		Cytoplasmic Alteration	Minimal
Salivary Glands	Submandibul GI	Inflammation	Minimal
Thymus		Cyst	Minimal
Urinary Bladder		Inflammation	Chronic, Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Pancreas
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Cortex	Hyperplasia	Mild
Brain	Thalamus	Mineralization	Minimal
Gallbladder		Inflammation	Chronic, Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
Note: FATTY CHANGE	TGLs = 3-2		
Note: HEPATOCLR ADEN	TGLs = 2-2.1		
Nose		Inflammation	Acute, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870402

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Note: INFLAMMATION TGLs = 5-3			
Liver		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
		Inflammation	Chronic Active, Mild
		Necrosis	Minimal
Note: THE MEDIAN LOBE MASS WAS TAKEN BY NTP FOR ONCOGENE			
Note: HEPATOCLR ADEN TGLs = 2,3,4-2+2.1+2.2			
Note: STUDIES.			
Lung	Alveolar Epith	Hyperplasia	Minimal
Note: HYPERPLASIA TGLs = 6,7-1.1			
Seminal Vesicle		Fibrosis	Mild
[ Fibrosis TGLS = 1-4 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 609

DOSE: 0 PPM MALE

DISP: Dead

HISTO: 870404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thyroid Gland
Trachea			

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
Note: FATTY CHANGE	TGLs = 4-2		
Lung		Alveolar/Bronchiolar Carcinoma	
Note: ALV BRON CARC	TGLs = 3-1.1		
Prostate		Inflammation	Chronic Active, Mild
Urinary Bladder		Calculus Gross Observation	
		Fibrosis	Moderate
	Transit Epithe	Hyperplasia	Mild
		Inflammation	Chronic Active, Marked
		Ulcer	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 14	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870405

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

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**MISSING**

Gallbladder	Mammary Gland
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Fatty Change	Mild
		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 1-2.2 [ Eosinophilic Focus TGLS = 2-2.1 ]			
Lymph Node	Mesenteric	Angiectasis	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870406

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Pancreas
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland	Thymus	
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Intestine Large	Cecum	Hyperplasia	Lymphoid, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	

Note: FATTY CHANGE TGLs = 4-2

Note: HEPATOCLR ADEN TGLs = 2-2

Note: HEPATOCLR CARC TGLs = 3-2.1

Note: THE LARGE LESION AFFECTING THE LEFT LATERAL LOBE

Note: IS INTERPRETED AS A TRABECULAR CARCINOMA.

Nose		Inflammation	Acute, Minimal
Preputial Gland	Duct	Dilatation	Moderate
		Inflammation	Chronic Active, Minimal
[ Dilatation TGLS = 1-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870407

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Kidney	Inflammation	Chronic, Minimal
Liver	Fatty Change	Minimal
	Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 3-2 [ Hepatocellular Adenoma TGLS = 2-2 ]		
Lung	Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 4-1		
Salivary Glands	Submandibul GI	Inflammation
		Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 17	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870408

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Pituitary Gland	Prostate	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

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**MISSING**

Mammary Gland	Parathyroid Gland	Skin
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 18	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> 0 PPM MALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 853364

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Trachea	Urinary Bladder	

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Mineralization	Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Thyroid Gland	Follicle	Cyst	Minimal

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 455

DOSE: 0 PPM MALE

DISP: Interval Sacrifice

HISTO: 853365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Mesentery		Fibrosis	Minimal
		Inflammation	Chronic, Minimal
Note: INFLAMMATION TGLs = 1-6			
Note: FIBROSIS TGLs = 1-6			
Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Minimal
Note: CYST TGLs = 2-9			
Prostate		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 664

DOSE: 0 PPM MALE

DISP: Moribund

HISTO: 870409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Epididymis  
Intestine Large - Colon  
Intestine Small - Jejunum  
Pancreas  
Seminal Vesicle  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Parathyroid Gland  
Skin  
Testes

Bone  
Heart  
Intestine Small - Duodenum  
Lymph Node - Mesenteric  
Pituitary Gland  
Spleen  
Thyroid Gland

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Nose  
Prostate  
Stomach - Forestomach  
Trachea

MISSING

Gallbladder

Mammary Gland

Thymus

OBSERVATIONS

Brain  
Kidney  
Liver

Thalamus

Mineralization  
Inflammation  
Fatty Change  
Hepatocellular Carcinoma

Minimal  
Chronic, Minimal  
Mild

Note: HEPATOCLR CARC TGLs = 3-2.1+2.2+2.3  
[ Hepatocellular Carcinoma TGLS = 4-2 ]

Lung

Note: ALV BRON ADEN TGLs = 2-1

Preputial Gland

Duct

Alveolar/Bronchiolar Adenoma

Dilatation  
Inflammation

Moderate  
Chronic Active, Minimal

[ Dilatation TGLS = 1-9 ]

Salivary Glands

Tongue

Submandibul GI

Inflammation  
Hemorrhage

Chronic, Mild  
Minimal

Note: HEMORRHAGE TGLs = 6-10

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870410

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Epididymis  
Intestine Large - Colon  
Intestine Small - Jejunum  
Nose  
Prostate  
Stomach - Forestomach  
Thyroid Gland

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Pancreas  
Salivary Glands  
Stomach - Glandular  
Trachea

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Parathyroid Gland  
Seminal Vesicle  
Testes  
Urinary Bladder

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pituitary Gland  
Spleen  
Thymus

**MISSING**

Gallbladder                      Mammary Gland

**INSUFFICIENT TISSUE**

Skin

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	

Note: HEPATOCLR ADEN    TGLs = 1-2.1

Note: LIVER MASS WAS TAKEN BY NTP FOR ONCOGENE STUDIES.

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 22	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870411

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
[ Dilatation TGLS = 1-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870412

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Lung	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Intestine Small	Duodenum	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 4-6.1			
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Mild
		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
Note: FATTY CHANGE TGLs = 8,9-2+2.1			
Note: HEPATOCLR ADEN TGLs = 7,10-2+2.1+2.2			
Lymph Node	Mesenteric	Angiectasis	Minimal
	Pancreatic	Hyperplasia	Lymphoid, Mild
	Pancreatic	Hyperplasia	Plasma Cell, Mild
Note: WHAT THE PROSECTOR RECORDED AS AN ILIAC LYMPH NODE			
Note: WAS ACTUALLY A PANCREATIC LYMPH NODE.			
Note: HYPERPLASIA TGLs = 11-10			
Note: ANGIECTASIS TGLs = 5-5			
Note: HYPERPLASIA TGLs = 11-10			
Preputial Gland	Duct	Dilatation	Moderate
		Inflammation	Chronic Active, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:53

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 23

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870412

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Dilatation TGLS = 1-9 ]

Salivary Glands

Submandibul GI

Inflammation

Chronic, Minimal

Seminal Vesicle

Fibrosis

Mild

Note: FIBROSIS TGLs = 2-4

Thyroid Gland

Follicular Cel

Hyperplasia

Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 717

DOSE: 0 PPM MALE

DISP: Moribund

HISTO: 870413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Esophagus	Mammary Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Note: INFLAMMATION TGLs = 3-3			
Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 6-2.1+2.2			
Note: HEPATOCLR ADEN TGLs = 4,7-2			
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
Note: DILATATION TGLs = 1-9			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Forestomach	Squamous Cell Papilloma	
Note: PAPILLOMA SQUA TGLs = 9-3.1			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 25

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870414

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	

Note: LIVER MASS WAS TAKEN BY NTP FOR ONCOGENE STUDIES.

Note: HEPATOCLR ADEN TGLs = 1-2.1

Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 634

DOSE: 0 PPM MALE

DISP: Dead

HISTO: 870415

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Islets, Pancreatic	Kidney	Lung
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Thyroid Gland	Trachea

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Intestine Large	Cecum	Autolysis	Moderate
	Colon	Autolysis	Moderate
	Rectum	Autolysis	Moderate
Intestine Small	Duodenum	Autolysis	Moderate
	Ileum	Autolysis	Moderate
	Jejunum	Autolysis	Moderate
Liver		Hemangiosarcoma	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
Note: HEMANGIOSARC	TGLs = 7,8,9-2.1+2.2		
Note: HEMANGIOSARC	TGLs = 6,10-2		
Note: HEPATOCLR CARC	TGLs = 7-2.1		
Lymph Node	Mediastinal	Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 12-5		
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Depletion Lymphoid	Moderate
Urinary Bladder		Autolysis	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 27	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870416

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Lymph Node	Mesenteric	Angiectasis	Minimal
Note: ANGIECTASIS TGLs = 4-5			
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870417

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
Note: CLEAR CL FOCUS TGLs = 5-2			
Lung		Alveolar/Bronchiolar Carcinoma	
Note: ALV BRON CARC TGLs = 4-1.1			
Note: INVASION INTO A LARGER BRONCHIOLE WAS NOTED.			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Nose	Pancreas
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain	Thalamus	Mineralization	Minimal
Epididymis		Inflammation	Chronic Active, Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	

Note: CLEAR CL FOCUS TGLs = 5-2

Note: LIVER MASS WAS TAKEN BY NTP FOR ONCOGENE STUDIES.

Note: HEPATOCLR ADEN TGLs = 2-2.2

Lung		Alveolar/Bronchiolar Adenoma	Multiple
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Note: ALV BRON ADEN TGLs = 3,4-1.1

Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 30	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870419

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
Note: EOSIN FOCUS TGLs = 2-2			
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 31

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870420

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
Note: CLEAR CL FOCUS TGLs = 4-2			
Lung		Alveolar/Bronchiolar Adenoma	Multiple
Note: ALV BRON ADEN TGLs = 3-1			
Preputial Gland	Duct	Dilatation	Mild
[ Dilatation TGLS = 1-6 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Depletion Lymphoid	Mild

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 32	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 455
	<b>DOSE:</b> 0 PPM MALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 853366

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Testes	Thyroid Gland	Trachea
Urinary Bladder			

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**MISSING**

Mammary Gland	Nose
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Mineralization	Minimal
Liver		Fatty Change	Mild
Stomach	Glandular	Inflammation	Chronic, Minimal
Thymus		Cyst	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Pancreas	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	

Note: HEPATOCLR ADEN TGLs = 3,4,5,6-2+2.1

Note: HEPATOCLR CARC TGLs = 3-2.2

Note: TRABECULAR TYPE.

Note: THE CARCINOMA OF THE LIVER IS INTERPRETED AS A

Preputial Gland	Duct	Dilatation	Mild
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870422

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Eye	Gallbladder
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Harderian Gland		Adenoma	
Note: STUDIES.			
Note: THE HARDERIAN GLAND WAS TAKEN BY NTP FOR ONCOGENE			
Note: ADENOMA TGLs = 4-11			
Heart		Inflammation	Chronic Active, Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Cyst Multilocular	Mild
Note: CYST MULTILOC TGLs = 3-2.1			
Lymph Node	Mediastinal	Angiectasis	Minimal
[ Angiectasis TGLS = 2-5 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lymph Node - Mesenteric
Nose	Pancreas	Pituitary Gland	Prostate
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Epididymis		Inflammation	Chronic Active, Minimal
Liver		Clear Cell Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 4-2+2.1			
Lung		Alveolar/Bronchiolar Adenoma	Multiple
		Alveolar/Bronchiolar Carcinoma	
Note: ALV BRON CARC TGLs = 5-1			
[ Alveolar/Bronchiolar Adenoma TGLS = 7,8-1 ]			
Mesentery		Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 3-2.1			
Preputial Gland	Duct	Dilatation	Mild
[ Dilatation TGLS = 2-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Skin	Subcut Tiss	Sarcoma	
Note: THE SARCOMA ARISING ON THE TAIL COULD BE OF COLLAGENOUS			
Note: OR NEURAL ORIGIN.			
[ Sarcoma TGLS = 1-9 ]			
Spleen		Depletion Lymphoid	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:53

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 35

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870423

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Thyroid Gland

Follicular Cel

Adenoma

Note: ADENOMA TGLs = 6-5

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870424

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Eye
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node - Mesenteric	Mammary Gland
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OBSERVATIONS

Harderian Gland	Adenoma	
Note: ADENOMA TGLs = 3-9		
Note: STUDY.		
Note: THE HARDERIAN GLAND WAS TAKEN BY NTP FOR ONCOGENE		
Kidney	Inflammation	Chronic, Minimal
Liver	Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 2-2		
Salivary Glands	Submandibul GI	Inflammation
		Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:53

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

**ANIMAL ID:** 37

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 159

**DOSE:** 0 PPM MALE

**DISP:** Moribund

**HISTO:** 870425

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Ear	Epididymis	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Testes	Thyroid Gland	Trachea
Urinary Bladder			

**MISSING**

Mammary Gland	Thymus
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**OBSERVATIONS**

Heart		Inflammation	Chronic Active, Minimal
Kidney		Inflammation	Chronic, Minimal
Stomach	Glandular	Mineralization	Minimal

Note: MINERALIZATION.

Note: BOTH THE MUSCULARIS AND MUCOSA SHOWED FOCI OF

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 38	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 455
	<b>DOSE:</b> 0 PPM MALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 853367

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Nose
Pancreas	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

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**MISSING**

Mammary Gland	Parathyroid Gland
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Epididymis		Inflammation	Chronic, Minimal
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Fatty Change	Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Mesentery		Fibrosis	Mild
		Inflammation	Chronic, Minimal
		Necrosis	Moderate
Note: FIBROSIS	TGLs = 1-6		
Note: NECROSIS	TGLs = 1-6		
Prostate		Inflammation	Chronic, Minimal
Urinary Bladder		Inflammation	Chronic, Minimal

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870426

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Nose	Pancreas	Pituitary Gland	Seminal Vesicle
Skin	Stomach - Glandular	Testes	Thymus
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 5-2			
Lymph Node	Mesenteric	Angiectasis	Minimal
	Mandibular	Lymphoma Malignant Histiocytic	
Note: LYMPH MAL HIST TGLs = 1,2,3-5+5.1+5.2			
Note: ANGIECTASIS TGLs = 8-5			
Prostate		Inflammation	Chronic Active, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Lymphoma Malignant Histiocytic	
Note: LYMPH MAL HIST TGLs = 4-3			
Stomach	Forestomach	Squamous Cell Papilloma	
Note: PAPILLOMA SQUA TGLs = 7-3			
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 2-2.2			
Lung		Infiltration Cellular	Histiocyte, Minimal
Note: INFILTRAT CELL TGLs = 4-1			
Pituitary Gland	Pars Distalis	Cyst	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870428

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	
Note: TRABECULAR CARCINOMA.			
Note: LIVER MASS WAS TAKEN BY NTP FOR ONCOGENE STUDIES.			
Note: HEPATOCLR CARC TGLs = 2-2.1			
Note: PORTIONS OF THE LIVER MASS WERE COMPATIBLE WITH A			
Mesentery		Hemorrhage	Moderate
Note: MESENTERY WAS ACTUALLY IN THE RETROPERITONEUM.			
Note: THE HEMORRHAGE WHICH HAS BEEN DIAGNOSED IN THE			
[ Hemorrhage TGLS = 1-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870429

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	
Note: LIVER MASS WAS TAKEN BY NTP FOR ONCOGENE STUDIES.			
Note: HEPATOCLR ADEN TGLs = 2-2.1			
Lung		Alveolar/Bronchiolar Adenoma	Multiple
		[ Alveolar/Bronchiolar Adenoma TGLS = 1-1 ]	
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 43	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870430

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Lung	Nose
Pancreas	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

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**MISSING**

Lymph Node - Mesenteric	Mammary Gland	Parathyroid Gland
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Islets, Pancreatic		Adenoma	
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 2-2.1			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 44

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870431

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 2-2			
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
[ Dilatation TGLS = 1-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 457

DOSE: 0 PPM MALE

DISP: Interval Sacrifice

HISTO: 853368

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Pituitary Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Trachea	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Gallbladder		Inflammation	Acute, Mild
Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Mineralization	Minimal
Liver		Fatty Change	Mild
		Inflammation	Acute, Minimal
		Necrosis	Coagulative, Minimal
Lung	Alveolar Epith	Hyperplasia	Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Preputial Gland		Cyst	Multiple, Moderate
Note: CYST	TGLs = 1-9		
Thyroid Gland	Follicle	Cyst	Multiple, Mild
Urinary Bladder		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 457

DOSE: 0 PPM MALE

DISP: Interval Sacrifice

HISTO: 853369

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Nose	Pancreas	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

**MISSING**

Mammary Gland	Parathyroid Gland	Thymus
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Mineralization	Minimal
Liver		Fatty Change	Mild
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Preputial Gland		Cyst	Multiple, Marked
		Inflammation	Chronic, Minimal
Note: CYST	TGLs = 1,2-9		
Prostate		Inflammation	Chronic, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870432

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Pancreas
Pituitary Gland	Prostate	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Mild
Note: FATTY CHANGE TGLs = 3-2.1			
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Marked
Note: HYPERPLASIA TGLs = 2-5			
Nose		Inflammation	Acute, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Skin		Cyst Epithelial Inclusion	

[ Cyst Epithelial Inclusion TGLS = 1-9 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 48

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 0 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870433

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Pancreas	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Urinary Bladder		

**MISSING**

Mammary Gland	Parathyroid Gland	Trachea
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**OBSERVATIONS**

Kidney	Inflammation	Chronic, Minimal
Liver	Fatty Change	Minimal
	Hepatocellular Adenoma	Multiple
	Inflammation	Chronic Active, Minimal
Note: LIVER NODULES WERE TAKEN BY NTP FOR ONCOGENE STUDIES.		
Note: HEPATOCLR ADEN TGLs = 4-2		
Lung	Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 5-1.1+1.2		
Salivary Glands	Sublingual GI	Chronic, Minimal
	Submandibular GI	Chronic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:53

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

**ANIMAL ID:** 49

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870434

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Eye	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Harderian Gland		Adenoma	
[ Adenoma TGLS = 2-9 ]			
Kidney		Inflammation	Chronic, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870435

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Epididymis

Esophagus

Gallbladder

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lung

Lymph Node - Mesenteric

Nose

Pancreas

Pituitary Gland

Prostate

Seminal Vesicle

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Testes

Thymus

Thyroid Gland

Trachea

Urinary Bladder

**MISSING**

Mammary Gland

Parathyroid Gland

**OBSERVATIONS**

Kidney

Inflammation

Chronic, Minimal

Liver

Fatty Change

Minimal

[ Fatty Change TGLS = 1-2+2.1 ]

Salivary Glands

Submandibul GI

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 51	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 479
	<b>DOSE:</b> 0 PPM MALE	<b>DISP:</b> Moribund	<b>HISTO:</b> 870436

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea			

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**MISSING**

Gallbladder	Mammary Gland
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**OBSERVATIONS**

Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 3-2+2.1			
Lung	Alveolar Epith	Hyperplasia	Minimal
Prostate		Inflammation	Chronic Active, Moderate
Urinary Bladder		Calculus Gross Observation	

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 52

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870437

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Mild
		Fatty Change	Mild
		Hepatocellular Adenoma	
[ Clear Cell Focus TGLS = 3-2.1 ]			
[ Fatty Change TGLS = 3-2+2.1 ]			
[ Hepatocellular Adenoma TGLS = 2-2.1 ]			
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Mild
Note: INFLAMMATION TGLs = 1-9			
[ Dilatation TGLS = 1-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 53

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870438

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
		Fatty Change	Minimal
Note: CLEAR CL FOCUS TGLs = 3-2			
Lung	Alveolar Epith	Hyperplasia	Minimal
Note: THE LUNG MASS WAS TAKEN BY NTP FOR ONCOGENE STUDIES.			
Preputial Gland		Inflammation	Chronic Active, Moderate
[ Inflammation TGLS = 1-9 ]			
Salivary Glands	Sublingual GI	Inflammation	Chronic, Minimal
	Submandibular GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 54

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870439

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
Note: CLEAR CL FOCUS TGLs = 4-2			
Lung		Alveolar/Bronchiolar Adenoma	
Preputial Gland	Duct	Dilatation	Mild
Note: DILATATION TGLs = 2-9			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 55	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870440

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
Lymph Node	Mesenteric	Angiectasis	Minimal
Note: ANGIECTASIS TGLs = 2-5			
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
[ Dilatation TGLS = 1-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 56

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Eye	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Harderian Gland		Adenoma	
Note: ADENOMA	TGLs = 6-9		
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
Note: [ HEPATOCLR ADEN ]	TGLs = 5-2.1		
Note: LIVER MASS WAS TAKEN BY NTP FOR ONCOGENE STUDY.			
Preputial Gland	Duct	Dilatation	Mild
[ Dilatation TGLS = 1-10 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 57

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870442

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Nose  
Seminal Vesicle  
Testes  
Urinary Bladder

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Pancreas  
Spleen  
Thymus

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Pituitary Gland  
Stomach - Forestomach  
Thyroid Gland

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lymph Node - Mesenteric  
Prostate  
Stomach - Glandular  
Trachea

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain  
Kidney  
Liver  
Lung  
Parathyroid Gland  
Salivary Glands  
Skin

Thalamus  
  
  
  
  
Submandibul GI  
Subcut Tiss

Mineralization  
Inflammation  
Eosinophilic Focus  
Alveolar/Bronchiolar Adenoma  
Cyst  
Inflammation  
Hemangiosarcoma

Minimal  
Chronic, Minimal  
Moderate  
  
Mild  
Chronic, Minimal

Note: HEMANGIOSARC TGLs = 1-9

Note: SKIN MASS WAS TAKEN BY NTP FOR ONCOGENE STUDY.

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 58

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870443

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

**MISSING**

Mammary Gland	Thymus
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**OBSERVATIONS**

Kidney	Inflammation	Chronic, Minimal
Liver	Fatty Change	Minimal
	Mixed Cell Focus	Mild
Note: [ MIXED CL FOCUS ] TGLs = 2-2		
Lymph Node	Angiectasis	Minimal
Salivary Glands	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 59

TRT#: 1

SEX: Male

DAY ON TEST: 457

DOSE: 0 PPM MALE

DISP: Interval Sacrifice

HISTO: 853370

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Pancreas	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Mammary Gland	Parathyroid Gland
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**OBSERVATIONS**

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
		Metaplasia	Osseous, Minimal
	Renal Tubule	Mineralization	Minimal
Liver		Fatty Change	Mild
Preputial Gland		Cyst	Multiple, Moderate
Note: CYST	TGLs = 1-9		
Prostate		Inflammation	Chronic, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 60	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870444

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

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**MISSING**

Mammary Gland	Thymus
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
		Necrosis	Minimal
[ Clear Cell Focus TGLS = 2-2 ]			
Preputial Gland	Duct	Dilatation	Moderate
[ Dilatation TGLS = 1-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 61	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 737
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870783

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

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**MISSING**

Esophagus	Mammary Gland
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal

Note: SINGLE CELL HEPATOCYTE NECROSIS WITH CHRONIC ACTIVE

Note: INFLAMMATION IS A COMMON INCIDENTAL FINDING IN MICE.

Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 62	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 455
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860044

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Forestomach	

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**OBSERVATIONS**

Liver		Fatty Change Hepatocellular Adenoma	Minimal
[ Fatty Change TGLS = 2-2+2.1 ] [ Hepatocellular Adenoma TGLS = 3-2.1 ]			
Lymph Node	Mesenteric	Hyperplasia	Plasma Cell, Moderate
[ Hyperplasia TGLS = 4-5 ]			
Stomach	Glandular	Inflammation	Chronic Active, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 63

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870784

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Adrenal Gland - Medulla	Mammary Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 2-2 ]		
	[ Hepatocellular Carcinoma TGLS = 1-2.1 ]		
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN	TGLs = 3-1		
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 64

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 2-2			
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
Note: DILATATION TGLs = 1-9			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Forestomach	Acanthosis	Minimal
	Forestomach	Hyperkeratosis	Minimal
Note: HYPERKERATOSIS TGLs = 3-3.1			
Note: ACANTHOSIS TGLs = 3-3.1			
Thymus		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 65

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870786

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone	Bone Marrow	Epididymis	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Adrenal Gland - Medulla	Esophagus	Mammary Gland
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**OBSERVATIONS**

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	

Note: HEPATOCLR ADEN TGLs = 4,9-2

Note: HEPATOCLR CARC TGLs = 5-2.1

Lung Alveolar/Bronchiolar Adenoma

Note: ALV BRON ADEN TGLs = 6-1

Spleen Hemangiosarcoma

[ Hemangiosarcoma TGLS = 3-3 ]

**PRIMARY CAUSE OF DEATH**

-

Animal Note: ONE OF THE INCISOR TEETH WAS DEFORMED; HOWEVER, THIS

Animal Note: THIS IS NOT A PROTOCOL REQUIRED TISSUE.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

<b>ANIMAL ID:</b> 66	<b>TRT#:</b> 2 <b>DOSE:</b> 2,000 PPM MALE	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 737 <b>HISTO:</b> 870787
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Eye	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**MISSING**

Gallbladder	Mammary Gland
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**INSUFFICIENT TISSUE**

Adrenal Gland - Medulla
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Harderian Gland		Adenoma	
[ Adenoma TGLS = 8-9 ]			
Heart		Inflammation	Chronic Active, Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 6-2.1			
Lymph Node	Lumbar	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 7-11			
Preputial Gland	Duct	Dilatation	Moderate
		Inflammation	Chronic Active, Mild
[ Dilatation TGLS = 3-10 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 67

TRT#: 2

SEX: Male

DAY ON TEST: 736

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870788

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Adrenal Gland - Medulla	Mammary Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Harderian Gland		Adenoma	
Note: ADENOMA	TGLs = 4-9		
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-2.1 ]			
Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-1 ]		Infiltration Cellular	Histiocyte, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 68	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 736
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870789

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

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**MISSING**

Mammary Gland	Parathyroid Gland
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**OBSERVATIONS**

Kidney	Medulla	Foreign Body Inflammation	Minimal Chronic, Minimal
Note: OF UNKNOWN ORIGIN. Note: VISIBLE IN THE MEDULLA WERE SOME OLIVE GREEN GLOBULES			
Liver		Eosinophilic Focus	Minimal
Nose		Inflammation	Acute, Minimal
Sem Ves			
Note: ALTHOUGH THE SECRETORY CONTENT OF THE SEMINAL VESICLES Note: AND THE COAGULATING GLANDS WERE INCREASED THERE WERE Note: NO HISTOLOGIC ABNORMALITIES.			
Stomach	Glandular	Inflammation	Chronic Active, Mild

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 69

TRT#: 2

SEX: Male

DAY ON TEST: 736

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870790

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Prostate	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

INSUFFICIENT TISSUE

Skin

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
		Necrosis	Minimal
Lung	Mediastinum	Alveolar/Bronchiolar Adenoma	
		Hemangioma	
		Infiltration Cellular	Histiocyte, Mild
		Squamous Cell Carcinoma	
Note: MOST OF THE CIRCUMFERENCE OF THE MASS IT APPEARED TO			
Note: SQUAM CEL CARC TGLs = 3-1			
Note: HAVE A THIN FIBROUS CAPSULE.			
Note: WHAT THE TRIMMER THOUGHT WAS A BRONCHIAL LYMPH NODE			
Note: HEMANGIOMA TGLs = 4-9			
Note: WAS ACTUALLY A VASCULAR TUMOR IN THE MEDIASTINUM. FOR			
Lymph Node	Mesenteric	Angiectasis	Minimal
Pituitary Gland	Pars Distalis	Cyst	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:53

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 69

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 2,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870790

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Preputial Gland

Inflammation

Chronic Active, Minimal

Salivary Glands

Submandibul GI

Inflammation

Chronic, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 70

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870791

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Islets, Pancreatic	Lung	Nose	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Adrenal Gland - Medulla	Mammary Gland	Parathyroid Gland
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INSUFFICIENT TISSUE

Skin

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Intestine Small	Jejunum	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 3-6.1			
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 5-2			
Note: INOMA WITH BACK TO BACK HEPATIC CORDS.			
Note: THE LIVER TUMOR LOOKS LIKE A SMALL TRABECULAR CARC- [ Hepatocellular Carcinoma TGLS = 5-2 ]			
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 4-5.1			
Mesentery		Hemorrhage	Mild
Note: WHAT HAS BEEN DESIGNATED MESENTERY FOR THE PURPOSE OF			
Note: DIAGNOSIS WAS ACTUALLY RETROPERITONEAL FAT. THE			
Note: LATTER SITE IS NOT AVAILABLE IN THE TDMS.			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:53

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 70

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 2,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870791

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hemorrhage TGLS = 2-9 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 71	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 455
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860045

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Forestomach	Stomach - Glandular

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**OBSERVATIONS**

Liver	Fatty Change	Minimal
Seminal Vesicle	Inflammation	Chronic, Minimal

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**PRIMARY CAUSE OF DEATH** -

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Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 72

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 2,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870792

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Epididymis

Esophagus

Gallbladder

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lung

Lymph Node - Mesenteric

Nose

Pancreas

Pituitary Gland

Prostate

Salivary Glands

Seminal Vesicle

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Testes

Thymus

Thyroid Gland

Trachea

Urinary Bladder

**MISSING**

Mammary Gland

Parathyroid Gland

**OBSERVATIONS**

Eye

Cornea

Inflammation

Chronic Active, Minimal

Note: INFLAMMATION TGLs = 2-9.1

Harderian Gland

Adenoma

[ Adenoma TGLS = 3-9 ]

Kidney

Inflammation

Chronic, Minimal

Liver

Fatty Change

Minimal

[ Fatty Change TGLS = 4-2.1 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 73

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870793

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Lung	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Tissue NOS	Trachea	Urinary Bladder	

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 3,4-2+2.1 ]			
Pancreas		Cytoplasmic Alteration	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Tissue NOS			

Note: THE TISSUE NOS WAS ACTUALLY THE BULBOURETHRAL GLAND.

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 74	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 455
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860046

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Glandular	

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**MISSING**

Stomach - Forestomach

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**OBSERVATIONS**

Liver	Fatty Change	Mild
	Inflammation	Chronic Active, Minimal
	Necrosis	Coagulative, Minimal

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[ Fatty Change TGLS = 1-2 ]

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 75	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 693
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Moribund	<b>HISTO:</b> 870794

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Nose
Pancreas	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

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**MISSING**

Intestine Small - Duodenum	Mammary Gland	Parathyroid Gland	Thymus
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 4-2+2.1			
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Note: HEPATOCLR CARC TGLs = 5,6,7-1+1.1			
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
[ Dilatation TGLS = 2-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach			
Note: SOME PIGMENT CAN BE SEEN ON THE LUMENAL SURFACE OF THE			
Note: FORESTOMACH BUT IT CAN NOT BE CONSIDERED TO BE A LESION.			

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 76

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870795

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Pancreas	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Adrenal Gland - Medulla	Mammary Gland	Parathyroid Gland	Pituitary Gland
Salivary Glands			

OBSERVATIONS

Intestine Small	Jejunum	Adenocarcinoma	
Note: ADENOCARC	TGLs = 9-6+6.1+6.2+6.3+6.4		
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	Multiple
Note: WITHIN 2 OF THE CARCINOMAS WERE CLUSTERS OF BASOPHILIC			
Note: HEPATOCLR CARC	TGLs = 4,5,6,7,8-2+2.1+2.2		
Note: OF THE CARCINOMA.			
Note: SPINDLE SHAPED CELLS WHICH APPEAR TO BE A COMPONENT			
Preputial Gland	Duct	Dilatation	Moderate
		Inflammation	Chronic Active, Mild
[ Dilatation TGLS = 2-9 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

<b>ANIMAL ID:</b> 77	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 736
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Dead	<b>HISTO:</b> 870796

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Heart	Intestine Large - Rectum	Islets, Pancreatic
Lymph Node - Mesenteric	Pancreas	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**MISSING**

Gallbladder	Mammary Gland	Parathyroid Gland
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**OBSERVATIONS**

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Brain	Thalamus	Mineralization	Minimal
Intestine Large	Cecum	Autolysis	Mild
	Colon	Autolysis	Mild
Intestine Small	Duodenum	Autolysis	Mild
	Ileum	Autolysis	Mild
	Jejunum	Autolysis	Mild
Kidney	Renal Tubule	Atrophy	Moderate
		Hepatocellular Carcinoma	Metastatic (Liver)
		Inflammation	Chronic, Mild
Note: HEPATOCLR CARC	TGLs = 4-3.1		
Note: ATROPHY	TGLs = 3-3		
Liver		Autolysis	Mild
		Hemangiosarcoma	
		Hepatocellular Carcinoma	Multiple
Note: AUTOLYSIS	TGLs = 10-2+2.1		
Note: HEPATOCLR CARC	TGLs = 6,7,8-2+2.1		
Lung		Alveolar/Bronchiolar Carcinoma	Multiple
Note: LAR TUMOR, TWO OF WHICH WERE VERY SMALL BUT HAD			
Note: THERE WERE SEVERAL (3) NODULES OF ALVEOLAR BRONCHIO-			
Note: INVADDED INTO BRONCHI.			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:53

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 77

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 2,000 PPM MALE

**DISP:** Dead

**HISTO:** 870796

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: ALV BRON CARC TGLs = 11-1

Nose

Inflammation

Acute, Minimal

Salivary Glands

Submandibul GI

Inflammation

Chronic, Minimal

Spleen

Hematopoietic Cell Proliferation

Marked

[ Hematopoietic Cell Proliferation TGLS = 2-3 ]

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 78	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860047

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Lymph Node - Mesenteric	Stomach - Forestomach
Stomach - Glandular			

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**OBSERVATIONS**

Kidney	Inflammation	Chronic, Minimal
Liver	Fatty Change	Moderate
Note: FATTY CHANGE TGLs = 4-2		

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 79	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860048

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum			

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**OBSERVATIONS**

Intestine Small	Ileum	Inflammation	Chronic Active, Moderate
Note: IN ALL LAYERS OF THE ILEUM.			
Note: A TRANSMURAL INFLAMMATORY PROCESS WAS NOTED IN THE ILEUM			
Note: WITH MONONUCLEAR AND POLYMORPHONUCLEAR LEUKOCYTES PRESENT			
Stomach	Epithelium, Forestomach	Hyperplasia	Mild
	Glandular	Inflammation	Chronic Active, Mild

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 80

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870797

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney	Renal Tubule	Atrophy	Moderate
		Inflammation	Chronic, Mild
Note: INFLAMMATION TGLs = 2,3-3 [ Inflammation TGLS = 2,3-3 ]			
Liver		Basophilic Focus	Mild
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Tongue		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 4-9			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 81

TRT#: 2

SEX: Male

DAY ON TEST: 691

DOSE: 2,000 PPM MALE

DISP: Moribund

HISTO: 870798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney	Renal Tubule	Degeneration	Hyaline, Mild
Note: THIS IS AN INFREQUENT CHANGE IN THE MOUSE KIDNEY.			
Note: FOCAL AGGREGATES OF TUBULES IN THE CORTEX CONTAINED			
Note: AGGREGATES OF EOSINOPHILIC GRANULES.			
Lung		Alveolar/Bronchiolar Carcinoma	
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 3-5+5.1			
Nose		Inflammation	Acute, Minimal
Pancreas		Inflammation	Chronic Active, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL TGLs = 1-3			
Thymus		Lymphoma Malignant Mixed	
Note: IN IT; HOWEVER, IT IS NOT ENTIRELY CLEAR IF THE			
Note: THYMUS.			
Note: THE THYMUS WAS DIAGNOSED TO HAVE A MIXED LYMPHOMA			
Note: LYMPHOMA IS IN MEDIASTINAL LYMPH NODE OR THE			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 82

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
Note: HEPATOCLR CARC TGLs = 3,4,5-2+2.2			
[ Hepatocellular Adenoma TGLS = 4-2 ]			
[ Hepatocellular Carcinoma TGLS = 6,7,8,9-2.1+2.3 ]			
Preputial Gland	Duct	Dilatation	Moderate
		Inflammation	Chronic Active, Minimal
[ Dilatation TGLS = 2-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 83

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Eye
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Nose	Pancreas
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Necrosis	Minimal
		[ Hepatocellular Adenoma TGLS = 7-2 ]	
		[ Hepatocellular Carcinoma TGLS = 5-2.1 ]	
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Mesentery		Fibrosis	Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
		Note: NECROSIS TGLs = 6-11	
		[ Necrosis TGLS = 6-11 ]	
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
		Note: ONLY ONE PREPUCIAL GLAND WAS SECTIONED IN.	
		[ Dilatation TGLS = 3,4-9 ]	
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 84	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 455
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860049

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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<b>NORMAL</b>			
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Kidney	Stomach - Forestomach
Stomach - Glandular			

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<b>OBSERVATIONS</b>			
Liver		Fatty Change	Moderate
Note: FATTY CHANGE TGLs = 4-2			
Salivary Glands	Parotid GI	Inflammation	Chronic, Minimal

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<b>PRIMARY CAUSE OF DEATH</b>	-
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Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 85

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Pituitary Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain		Inflammation	Chronic Active, Mild
Epididymis		Inflammation	Chronic Active, Mild
Heart		Inflammation	Chronic Active, Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Minimal
[ Hyperplasia TGLS = 2-6 ]			
Kidney		Inflammation	Chronic, Mild
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR ADEN TGLs = 4-2			
Note: HEPATOCLR CARC TGLs = 3-2.1			
Lung		Inflammation	Chronic Active, Mild
Note: VASCULAR AND PERIBRONCHIOLAR AREAS. IT CONSISTED OF			
Note: LYMPHOCYTES, NEUTROPHILS, AND OCCASIONAL MULTI-			
Note: A MIXED INFLAMMATORY INFILTRATE WAS NOTED IN PERI-			
Note: NUCLEATED HISTIOCYTIC GIANT CELLS.			
Note: ARTERIOLES IN THE AFFECTED AREAS APPEARED TO BE BOTH			
Note: HYPERPLASTIC AND HYPERTROPHIED.			
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Pancreas		Inflammation	Chronic Active, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 85	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 737
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870801

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Prostate		Inflammation	Chronic Active, Mild
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Seminal Vesicle		Inflammation	Chronic Active, Minimal
Spleen		Hyperplasia	Lymphoid, Mild
Testes		Inflammation	Chronic Active, Minimal
Urinary Bladder		Inflammation	Chronic Active, Minimal

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 86	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 737
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870802

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	
Note: [ HEPATOCLR ADEN ] TGLs = 2-2.1			
Spleen		Hyperplasia	Lymphoid, Mild

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 87

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 2,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870803

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Epididymis  
Intestine Large - Colon  
Intestine Small - Jejunum  
Pancreas  
Salivary Glands  
Stomach - Glandular  
Trachea

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Parathyroid Gland  
Seminal Vesicle  
Testes  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Lymph Node - Mesenteric  
Pituitary Gland  
Spleen  
Thymus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Nose  
Prostate  
Stomach - Forestomach  
Thyroid Gland

**MISSING**

Esophagus    Mammary Gland

**INSUFFICIENT TISSUE**

Skin

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
		Hepatocellular Carcinoma	
		Mixed Cell Focus	Minimal
[ Hepatocellular Carcinoma TGLS = 2-2.1 ]			
Lung		Alveolar/Bronchiolar Carcinoma	

Note: ALV BRON CARC    TGLs = 3-1+1.1

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 88

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 2,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870804

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Adrenal Gland - Medulla	Mammary Gland	Preputial Gland
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**OBSERVATIONS**

Kidney	Inflammation	Chronic, Minimal
Liver	Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 4-2 ]		
Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 5,6-1+1.1 ]	Infiltration Cellular	Histiocyte, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 89

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 2,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870805

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Bone	Bone Marrow	Ear
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Adrenal Gland - Medulla	Mammary Gland	Parathyroid Gland
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	

Note: HEPATOCLR ADEN TGLs = 3-2.1

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 90	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 737
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870806

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

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**MISSING**

Mammary Gland	Parathyroid Gland
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**OBSERVATIONS**

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Preputial Gland	Duct	Dilatation	Moderate
		Inflammation	Chronic Active, Minimal
[ Dilatation TGLS = 2-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 91

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pituitary Gland  
Spleen  
Thyroid Gland

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Nose  
Prostate  
Stomach - Glandular  
Trachea

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Pancreas  
Seminal Vesicle  
Testes  
Urinary Bladder

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lung  
Parathyroid Gland  
Skin  
Thymus

MISSING

Mammary Gland

OBSERVATIONS

Brain Thalamus Mineralization  
Kidney Inflammation  
Liver Fatty Change  
Hepatocellular Adenoma

Minimal  
Chronic, Minimal  
Minimal  
Multiple

Note: HEPATOCLR ADEN TGLs = 3,4-2

Note: FATTY CHANGE TGLs = 5-2

Salivary Glands Submandibul GI  
Stomach Forestomach

Inflammation  
Mineralization

Chronic, Minimal  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 92

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Pancreas	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland	Preputial Gland	
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OBSERVATIONS

Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 4,5,6-2+2.1			
Lung		Alveolar/Bronchiolar Adenoma	
Mesentery		Hemorrhage	Mild
[ Hemorrhage TGLS = 3-10 ]			
Preputial GI			
Note: THE TRIMMER CUT IN THE PENIS INSTEAD OF THE PREPUCIAL			
Note: GLAND.			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 93

TRT#: 2

SEX: Male

DAY ON TEST: 542

DOSE: 2,000 PPM MALE

DISP: Moribund

HISTO: 870809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Liver		Hepatocellular Carcinoma	
		Necrosis	Mild
Note: HEPATOCLR CARC TGLs = 2-2.1			
Note: NECROSIS TGLs = 4-2			
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Urinary Bladder		Calculus Micro Observation Only	
Note: CALCUS MIC OBS TGLs = 3-1			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 94	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860050

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Forestomach	

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**OBSERVATIONS**

Liver		Fatty Change	Moderate
Note: FATTY CHANGE	TGLs = 2,4-2		
Preputial Gland		Cyst	Multiple, Moderate
		Pigmentation	Minimal
[ Cyst TGLS = 3-6 ]			
Stomach	Glandular, Mucosa	Mineralization	Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 95

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870810

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Pituitary Gland	Preputial Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland [ Hyperplasia TGLS = 3-7 ]	Medulla	Hyperplasia	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
Note: HEPATOCLR ADEN TGLs = 6,7,8-2+2.1+2.2 [ Hepatocellular Adenoma TGLS = 4-2.1 ]			
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 5-1.1			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 96	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 737
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870811

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Liver
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

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**MISSING**

Mammary Gland	Salivary Glands
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**OBSERVATIONS**

Adrenal Gland Note: HYPERPLASIA TGLs = 5-7	Cortex	Hyperplasia	Mild
Brain	Thalamus	Mineralization	Minimal
Preputial Gland	Duct	Dilatation	Mild

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 97

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Brain	Thalamus	Mineralization	Minimal
Intestine Small	Ileum	Adenocarcinoma	
Note: ADENOCARC TGLs = 3-6			
Note: CARCINOMA. THERE IS A SUGGESTION OF INVASION BENEATH			
Note: THE MUSCULARIS MUCOSAE.			
Note: THE LESION IN THE ILEUM APPEARS TO BE AN EARLY ADENO-			
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 4-2.1			
Lung		Alveolar/Bronchiolar Carcinoma	
Note: SEVERAL BRONCHIOLES SUGGESTS A CARCINOMA.			
Note: THE PLEOMORPHISM IN THIS LESION PLUS INVASION INTO			
Note: ALV BRON CARC TGLs = 6-1			
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Mild
[ Dilatation TGLS = 2-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:53

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 97

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 2,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870812

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 98	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 737
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870813

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Kidney	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

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**MISSING**

Mammary Gland	Parathyroid Gland
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Intestine Small	Jejunum	Adenocarcinoma	
Note: BELOW THE MUSCULARIS MUCOSAE.			
Note: THE TUMOR IN THE JEJUNUM SHOWS DEFINITE INVASION			
[ Adenocarcinoma TGLS = 2-6 ]			
Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 4-2			
Note: HEPATOCLR ADEN TGLs = 3,5-2+2.1			

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 99

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870814

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood	Bone
Bone Marrow	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lymph Node - Mesenteric	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Liver		Fatty Change	Mild
		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 5-2.1			
Note: FATTY CHANGE TGLs = 6,7-2+2.1			
Lung		Alveolar/Bronchiolar Adenoma	Multiple
Note: ALV BRON ADEN TGLs = 4-1			
Mesentery		Angiectasis	Mild
Note: ANGIECTASIS TGLs = 3-9			
Nose		Inflammation	Acute, Minimal
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
Note: INFLAMMATION TGLs = 2-10			
Note: DILATATION TGLs = 2-10			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 100

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 2,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870815

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Lung  
Parathyroid Gland  
Skin  
Testes  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pituitary Gland  
Spleen  
Thymus

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Nose  
Prostate  
Stomach - Forestomach  
Thyroid Gland

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Pancreas  
Seminal Vesicle  
Stomach - Glandular  
Trachea

**MISSING**

Mammary Gland

**OBSERVATIONS**

Kidney		Inflammation	Chronic, Minimal
Liver		Hemangiosarcoma	
		Hepatocellular Adenoma	Multiple
Note: HEMANGIOSARC	TGLs = 7-2		
Note: HEPATOCLR ADEN	TGLs = 6-2.1+2		
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
Note: DILATATION	TGLs = 3-9		
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 101

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Lung
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Intestine Small	Jejunum	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 4-6.1 ]			
Kidney		Inflammation	Chronic, Minimal
Liver		Angiectasis	Mild
		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal

Note: THE FOCUS OF NECROSIS IN THE LIVER WAS THE SINGLE

Note: ANGIECTASIS TGLs = 6-2

Note: CELL TYPE SURROUNDED BY CHRONIC ACTIVE INFLAMMATORY

Note: CELLS.

Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 5-5 ]			
Mesentery		Hemorrhage	Mild
[ Hemorrhage TGLS = 3-10 ]			
Preputial Gland	Duct	Dilatation	Moderate
[ Dilatation TGLS = 2-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 102

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Intest Large			
Note: THE PEYER'S PATCH IN THE CECUM IS WITHIN NORMAL			
Note: LIMITS.			
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 2,4-2+2.1 ]			
Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 3-1 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 103	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 455
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860051

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Forestomach	Stomach - Glandular

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**OBSERVATIONS**

Liver	Fatty Change	Mild
	Necrosis	Coagulative, Minimal
[ Fatty Change TGLS = 1,4-2 ]		
Preputial Gland	Cyst	Multiple, Moderate
Note: CYST      TGLs = 3-6		

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PRIMARY CAUSE OF DEATH      -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 104	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 737
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870818

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Pancreas	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

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**MISSING**

Mammary Gland	Parathyroid Gland
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**OBSERVATIONS**

Kidney	Inflammation	Chronic, Minimal	
Liver	Hepatocellular Adenoma	Multiple	
	Mixed Cell Focus	Minimal	
[ Mixed Cell Focus TGLS = 2,3,5-2+2.1 ]			
Nose	Inflammation	Acute, Minimal	
Salivary Glands	Submandibul GI	Chronic, Mild	

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 105

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Lung
Pancreas	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Nose	Parathyroid Gland
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OBSERVATIONS

Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Mild
		Fatty Change	Minimal
		Hemangiosarcoma	
		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 4-2.1			
Note: CLEAR CL FOCUS TGLs = 6-2			
Note: HEMANGIOSARC TGLs = 5-2.1			
Lymph Node	Mesenteric	Angiectasis	Mild
Note: ANGIECTASIS TGLs = 3,9-5			
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Mild
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 106	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 455
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860052

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Glandular	

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**OBSERVATIONS**

Liver		Fatty Change	Moderate
[ Fatty Change TGLS = 2,5-2 ]			
Preputial Gland		Cyst	Multiple, Moderate
Note: CYST TGLs = 4-9			
Stomach	Forestomach	Mineralization	Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 107

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
	Jejunum	Hyperplasia	Lymphoid, Minimal
	Ileum	Inflammation	Chronic Active, Mild
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR ADEN TGLs = 4-2			
Lung	Alveolar Epith	Hyperplasia	Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Plasma Cell, Moderate
Note: HYPERPLASIA TGLs = 3-5 [ Hyperplasia TGLs = 3-5 ]			
Mesentery		Hemorrhage	Mild
[ Hemorrhage TGLs = 2-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Glandular	Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 108

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870821

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
		Necrosis	Minimal
Note: HEPATOCLR ADEN	TGLs = 3-2		
Mesentery		Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 2-9		
Nose		Inflammation	Acute, Minimal
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 109

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870822

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Kidney	Renal Tubule	Atrophy	Minimal
		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Mild
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 4,5,7,8,9-2+2.1+2.2 ]		
Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Minimal
	Note: ALV BRON CARC TGLs = 10-1		
Mesentery		Hemorrhage	Mild
	[ Hemorrhage TGLS = 3-9 ]		
Preputial Gland	Duct	Dilatation	Mild
	[ Dilatation TGLS = 2-10 ]		
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 110

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 455

**DOSE:** 2,000 PPM MALE

**DISP:** Interval Sacrifice

**HISTO:** 860053

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum  
Intestine Small - Ileum

Intestine Large - Colon  
Intestine Small - Jejunum

Intestine Large - Rectum  
Stomach - Forestomach

Intestine Small - Duodenum  
Stomach - Glandular

---

**OBSERVATIONS**

Kidney  
Liver  
Preputial Gland  
Note: CYST      TGLs = 6,7-9  
Salivary Glands

Submandibul GI

Inflammation  
Fatty Change  
Cyst

Inflammation

Chronic, Minimal  
Mild  
Multiple, Marked

Chronic, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 111

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870823

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 3-2			
Lung		Alveolar/Bronchiolar Adenoma	
Lymph Node	Mesenteric	Angiectasis	Mild
Note: ANGIECTASIS TGLs = 2-5			
Nose		Inflammation	Acute, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 112	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 737
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870824

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Nose	Pancreas
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Urinary Bladder		

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**MISSING**

Esophagus	Lymph Node - Mesenteric	Mammary Gland	Parathyroid Gland
Salivary Glands	Thyroid Gland	Trachea	

---

**OBSERVATIONS**

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 3,4,5-2+2.1 ]			
Mesentery		Hemorrhage	Mild
[ Hemorrhage TGLS = 2-9 ]			

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 113

TRT#: 2

SEX: Male

DAY ON TEST: 507

DOSE: 2,000 PPM MALE

DISP: Dead

HISTO: 870825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Heart	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Esophagus	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Gallbladder		Autolysis	Mild
Intestine Large	Cecum	Autolysis	Mild
	Cecum	Hyperplasia	Lymphoid, Mild
Intestine Small	Ileum	Autolysis	Marked
Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Carcinoma	
		[ Hepatocellular Carcinoma TGLS = 1-2+2.1 ]	
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Glandular	Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 114

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 2,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870826

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Prostate  
Spleen  
Thymus

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Liver  
Pancreas  
Seminal Vesicle  
Stomach - Glandular  
Trachea

**MISSING**

Mammary Gland

Parathyroid Gland

**OBSERVATIONS**

Brain  
Kidney  
Preputial Gland  
[ Dilatation TGLS = 2-9 ]

Thalamus  
Duct

Mineralization  
Inflammation  
Dilatation

Minimal  
Chronic, Minimal  
Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 115

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 2,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870827

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Nose  
Seminal Vesicle  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Rectum  
Islets, Pancreatic  
Pancreas  
Skin  
Testes

Bone  
Gallbladder  
Intestine Small - Duodenum  
Lung  
Pituitary Gland  
Spleen  
Thymus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Prostate  
Stomach - Forestomach  
Trachea

**MISSING**

Mammary Gland

Parathyroid Gland

**INSUFFICIENT TISSUE**

Esophagus

**OBSERVATIONS**

Heart  
Kidney  
Liver  
    Note: BASOPH FOCUS    TGLs = 2-2  
Salivary Glands  
Thyroid Gland

Submandibul GI

Mineralization  
Inflammation  
Basophilic Focus  
  
Inflammation  
Cyst

Minimal  
Chronic, Minimal  
Minimal  
  
Chronic, Minimal  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 116

TRT#: 2

SEX: Male

DAY ON TEST: 679

DOSE: 2,000 PPM MALE

DISP: Moribund

HISTO: 870828

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Epididymis  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Adrenal Gland - Medulla  
Esophagus  
Intestine Small - Duodenum  
Liver  
Pancreas  
Seminal Vesicle  
Stomach - Glandular  
Trachea

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

Bone Marrow  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Prostate  
Spleen  
Thymus

**MISSING**

Mammary Gland

Parathyroid Gland

**INSUFFICIENT TISSUE**

Gallbladder

**OBSERVATIONS**

Brain  
Heart  
Kidney

Thalamus

Mineralization  
Inflammation  
Inflammation

Minimal  
Chronic Active, Minimal  
Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 117

TRT#: 2

SEX: Male

DAY ON TEST: 715

DOSE: 2,000 PPM MALE

DISP: Moribund

HISTO: 870829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pancreas	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Trachea	Urinary Bladder	

MISSING

Eye	Mammary Gland	Parathyroid Gland	Thymus
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INSUFFICIENT TISSUE

Lymph Node - Mesenteric

OBSERVATIONS

Harderian Gland		Adenocarcinoma	
Note: ADENOCARC	TGLs = 9-9		
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN	TGLs = 11,12-2.1		
Lung		Adenocarcinoma	Metastatic (Harderian Gland)
Note: ADENOCARC	TGLs = 6,7,8-1+1.1		
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
	Mandibular	Hyperplasia	Plasma Cell, Mild
Note: HYPERPLASIA	TGLs = 15-5		
Note: HYPERPLASIA	TGLs = 15-5		
Nose		Adenocarcinoma	Metastatic (Harderian Gland)
Note: ADENOCARC	TGLs = 10-8		
Preputial Gland	Duct	Dilatation	Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL	TGLs = 13-3		
Thyroid Gland	Follicular Cel	Adenoma	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 117	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 715
	<b>DOSE:</b> 2,000 PPM MALE	<b>DISP:</b> Moribund	<b>HISTO:</b> 870829

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH	-
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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 118

TRT#: 2

SEX: Male

DAY ON TEST: 737

DOSE: 2,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870830

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Mammary Gland

**OBSERVATIONS**

Kidney	Inflammation	Chronic, Minimal
Liver [ Hepatocellular Carcinoma TGLS = 3-2.1 ]	Hepatocellular Carcinoma	
Lung [ Alveolar/Bronchiolar Adenoma TGLS = 4-1 ]	Alveolar/Bronchiolar Adenoma	
Mesentery [ Hemorrhage TGLS = 2-9 ]	Hemorrhage	Mild
Salivary Glands Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 119

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 2,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870831

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**MISSING**

Mammary Gland

**OBSERVATIONS**

Kidney		Inflammation	Chronic, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 120

TRT#: 2

SEX: Male

DAY ON TEST: 661

DOSE: 2,000 PPM MALE

DISP: Moribund

HISTO: 870832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Eye	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Mild
		Hepatocellular Carcinoma	
Note: [ EOSIN FOCUS ] TGLs = 9-2 [ Clear Cell Focus TGLS = 5 ,6-2.1 ] [ Hepatocellular Carcinoma TGLS = 7,8-2.2+2.3 ]			
Preputial Gland	Duct	Dilatation	Mild
[ Dilatation TGLS = 2-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Mild
Stomach	Glandular	Erosion	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 121

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870683

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 4-2			
Lymph Node			
Note: CONGESTION WAS NOTED IN THE MESENTERIC LYMPH NODE;			
Note: HOWEVER, THIS IS NOT CONSIDERED TO BE A LESION.			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Skeletal Muscle		Sarcoma	
Note: ETC.; HOWEVER, IT IS DIFFICULT TO JUDGE BASED ON THE			
Note: THE SKELETAL MUSCLE. IT COULD BE A FIBRO-, RHABDOMYO-,			
Note: THIS IS A POORLY DIFFERENTIATED SARCOMA ARISING IN			
Note: H & E SECTION.			
[ Sarcoma TGLS = 2-9 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

<b>ANIMAL ID:</b> 122	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 735
	<b>DOSE:</b> 10,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870684

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

**MISSING**

Mammary Gland	Thymus
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
Note: FATTY CHANGE TGLs = 8-2			
Note: HEPATOCLR ADEN TGLs = 7-2			
Note: HEPATOCLR CARC TGLs = 6-2.1			
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 4-5			
Preputial Gland	Duct	Dilatation	Mild
[ Dilatation TGLS = 2,3-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 123

TRT#: 3

SEX: Male

DAY ON TEST: 713

DOSE: 10,000 PPM MALE

DISP: Moribund

HISTO: 870685

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Adrenal Gland - Medulla	Mammary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Pigmentation	Minimal
Liver		Eosinophilic Focus	Mild
		Hepatoblastoma	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
Note: HEPATOBLASTOMA	TGLs = 5-2.1+2.2		
Note: HEPATOCLR CARC	TGLs = 6-2.1+2.3		
Note: HEPATOCLR ADEN	TGLs = 7-2		
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Lymph Node	Mesenteric, Sinus	Ectasia	Mild
Note: ECTASIA	TGLs = 4-5		
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 124

TRT#: 3

SEX: Male

DAY ON TEST: 541

DOSE: 10,000 PPM MALE

DISP: Moribund

HISTO: 870686

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Nose  
Seminal Vesicle  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Colon  
Intestine Small - Jejunum  
Pancreas  
Skin  
Testes

Bone  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Pituitary Gland  
Spleen  
Thyroid Gland

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lymph Node - Mesenteric  
Prostate  
Stomach - Forestomach  
Trachea

**MISSING**

Gallbladder

Mammary Gland

Parathyroid Gland

Thymus

**OBSERVATIONS**

Kidney  
Liver

[ Hepatocellular Carcinoma TGLS = 1-2+2.1 ]

Lung

[ Hepatocellular Carcinoma TGLS = 2-1 ]

Salivary Glands

Submandibul GI

Inflammation  
Hepatocellular Carcinoma

Hepatocellular Carcinoma

Inflammation

Chronic, Minimal  
Multiple

Metastatic (Liver)

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 125	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> 10,000 PPM MALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860054

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Spleen	Stomach - Forestomach	Stomach - Glandular	

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**OBSERVATIONS**

Liver	Fatty Change	Moderate
Note: FATTY CHANGE TGLs = 3,7-2		
Preputial Gland	Cyst	Multiple, Mild
	Inflammation	Chronic, Mild
Note: CYST TGLs = 6-6		

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 126

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870687

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Epididymis  
Intestine Large - Colon  
Intestine Small - Jejunum  
Nose  
Salivary Glands  
Stomach - Glandular  
Trachea

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Pancreas  
Seminal Vesicle  
Testes  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Pituitary Gland  
Skin  
Thymus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Prostate  
Spleen  
Thyroid Gland

MISSING

Brain

Gallbladder

Mammary Gland

Parathyroid Gland

OBSERVATIONS

Kidney  
Liver

Inflammation  
Fatty Change  
Hepatocellular Adenoma  
Hepatocellular Carcinoma

Chronic, Minimal  
Minimal  
Multiple

Note: HEPATOCLR CARC TGLs = 3-2.1

Note: HEPATOCLR ADEN TGLs = 4,5,6-2+2.2

Stomach

Forestomach

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 127

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870688

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Prostate  
Spleen  
Thymus

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Brain  
Heart  
Intestine Small - Duodenum  
Kidney  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

MISSING

Adrenal Gland - Medulla

Mammary Gland

OBSERVATIONS

Liver

Fatty Change  
Hepatocellular Adenoma  
Hepatocellular Carcinoma

Minimal  
Multiple

Note: THE CARCINOMA APPEARS TO BE A TRABECULAR TYPE WITH

Note: HEPATOCLR CARC TGLs = 2-2

Note: FATTY CHANGE TGLs = 5-2+2.1

Note: HEPATOCLR ADEN TGLs = 3,4-2+2.1

Note: NODULES WITHIN NODULES.

Nose

Inflammation

Acute, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 128

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870689

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Intestine Small	Duodenum	Adenocarcinoma	
Note: THE MASS IN THE DUODENUM APPEARS TO BE BOTH ENDOPHYTIC			
Note: ADENOCARC TGLs = 4-6.1			
Note: AND EXOPHYTIC.			
Kidney		Inflammation	Chronic, Minimal
Pancreas		Autolysis	Minimal
Preputial Gland	Duct	Dilatation	Mild
Note: DILATATION TGLs = 2-9			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL TGLs = 3-3			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 129

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Adrenal Gland - Medulla	Mammary Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Mild
		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 3,4-2+2.1			
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 5-1			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 130

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870691

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 6,7-2			
Preputial Gland	Duct	Dilatation	Mild
[ Dilatation TGLS = 2-9 ]			
Salivary Glands	Submandibul Gl	Inflammation	Chronic, Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 131

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 455

**DOSE:** 10,000 PPM MALE

**DISP:** Interval Sacrifice

**HISTO:** 860055

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Stomach - Forestomach

Stomach - Glandular

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**OBSERVATIONS**

Liver

Fatty Change

Moderate

[ Fatty Change TGLS = 2,3,5-2 ]

Preputial Gland

Cyst

Multiple, Moderate

Inflammation

Chronic, Minimal

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Note: CYST TGLs = 4-9

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 132

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870692

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

**MISSING**

Mammary Gland	Thymus
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 4,5-2.1			
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 3-1			
Preputial Gland	Duct	Dilatation	Moderate
Note: DILATATION TGLs = 2-9			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 133

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870693

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Mammary Gland

**OBSERVATIONS**

Kidney	Inflammation	Chronic, Minimal
Liver	Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 4-2.1		
Lung	Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 5-1		
Preputial Gland	Inflammation	Chronic Active, Minimal
Testes	Sertoli Cell Adenoma	
Note: THE OBSERVATION OF A SERTOLI CELL TUMOR IN THE TESTES		
Note: IS A RARE OCCURRENCE.		

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:53

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 134

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870694

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Nose	Parathyroid Gland	Pituitary Gland	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

AUTO PRECLUDES DIAG.

Mammary Gland

OBSERVATIONS

Adrenal Gland			
Note: IS A VERY PRONOUNCED GRANULOMATOUS INFLAMMATION.			
Note: ALTHOUGH THE ADRENAL CORTEX AND MEDULLA ARE UNREMARK-			
Note: ABLE, IN THE TISSUE SURROUNDING THE ADRENAL THERE			
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic Active, Moderate
Note: CELLS, AND LYMPHOID CELLS, ETC. A SIMILIAR INFLAMMATION			
Note: WERE HISTIOCYTES, MULTINUCLEATE HISTIOCYTIC GIANT			
Note: LUNG WITH AN ALVEOLAR, PERIVASCULAR, AND PERIBRONCH-			
Note: A PRONOUNCED INFLAMMATORY PROCESS WAS NOTED IN THE			
Note: INFLAMMATION TGLs = 6-1			
Note: WAS OBSERVED IN THE SPLEEN AND MESENTERIC LYMPH			
Note: NODES. THE ETIOLOGY FOR THIS RESPONSE IS UNKNOWN.			
Note: IOLAR DISTRIBUTION. CELLS INCLUDED IN THE RESPONSE			
Lymph Node	Mesenteric	Inflammation	Granulomatous, Marked
Note: INFLAMMATION TGLs = 4-5.1			
Pancreas	Acinus	Atrophy	Moderate
		Inflammation	Chronic Active, Marked
Preputial Gland	Duct	Dilatation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:53  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 134

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 10,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870694

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Dilatation TGLS = 2-9 ]

Prostate

Inflammation

Chronic Active, Moderate

Spleen

Hyperplasia

Lymphoid, Mild

Inflammation

Granulomatous, Mild

Note: HYPERPLASIA TGLs = 3-3

Note: INFLAMMATION TGLs = 3-3

Thymus

Inflammation

Chronic Active, Marked

Note: INFLAMMATION TGLs = 5-5

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 135

TRT#: 3

SEX: Male

DAY ON TEST: 713

DOSE: 10,000 PPM MALE

DISP: Moribund

HISTO: 870695

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Mammary Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Mild
Note: THE CHRONIC INFLAMMATION IN THE KIDNEY IS PRIMARILY Note: PERIVASCULAR IN DISTRIBUTION.			
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 3-2			
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
[ Dilatation TGLS = 2-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 136

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 455

**DOSE:** 10,000 PPM MALE

**DISP:** Interval Sacrifice

**HISTO:** 860056

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Stomach - Forestomach	Stomach - Glandular		

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**OBSERVATIONS**

Liver	Fatty Change	Moderate
[ Fatty Change TGLS = 2,3-2 ]	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 5-2 ]		
Preputial Gland	Cyst	Multiple, Marked
Note: CYST TGLs = 6-9	Inflammation	Chronic, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 137

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Adrenal Gland - Medulla	Mammary Gland
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OBSERVATIONS

Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatoblastoma	
		Hepatocellular Adenoma	Multiple
		Necrosis	Minimal
Note: HEPATOBLASTOMA TGLs = 4-2.1			
Note: NECROSIS TGLs = 6-2			
Note: HEPATOCLR ADEN TGLs = 5-2			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 2-3			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 138	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 734
	<b>DOSE:</b> 10,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870697

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Mild
Note: FATTY CHANGE TGLs = 4-2			
Preputial Gland	Duct	Dilatation	Mild
[ Dilatation TGLS = 2-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 139

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870698

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**MISSING**

Mammary Gland

**OBSERVATIONS**

Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 3-2.1			
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 4-1			
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
[ Dilatation TGLS = 2-9 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 140

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870699

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Inflammation	Chronic, Mild
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
Note: FATTY CHANGE TGLs = 8-2			
Note: HEPATOCLR ADEN TGLs = 4,5,6,7-2+2.1			
Mesentery		Fibrosis	Minimal
		Hemorrhage	Mild
		Inflammation	Chronic Active, Mild
Note: IN THE RETROPERITONEAL AREA.			
Note: INFLAMMATION TGLs = 2-5			
Note: THE HEMORRHAGE DESIGNATED UNDER TISSUE NOS OCCURRED			
Note: HEMORRHAGE TGLs = 3-9			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 141

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870700

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Kidney	Inflammation	Chronic, Minimal
Liver	Fatty Change	Minimal
	Hepatocellular Adenoma	Multiple
	Hepatocellular Carcinoma	Multiple

[ Fatty Change TGLS = 4,7,9-2+2.1+2.2 ]

[ Hepatocellular Adenoma TGLS = 3,5,8-2+2.1+2.2 ]

[ Hepatocellular Carcinoma TGLS = 3,6-2.1+2.3 ]

Preputial Gland	Duct	Dilatation	Mild
		[ Dilatation TGLS = 2-9 ]	

Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Forestomach	Acanthosis	Minimal
	Forestomach	Hyperkeratosis	Minimal
	Forestomach	Hyperplasia	Basal Cell, Minimal
	Forestomach	Inflammation	Chronic Active, Minimal

Note: ACANTHOSIS TGLs = 10-3.1

Note: HYPERPLASIA TGLs = 10-3.1

Note: INFLAMMATION TGLs = 10-3.1

Note: HYPERKERATOSIS TGLs = 10-3.1

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 141

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 10,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870700

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 142

TRT#: 3

SEX: Male

DAY ON TEST: 541

DOSE: 10,000 PPM MALE

DISP: Moribund

HISTO: 870701

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
			[ Hepatocellular Adenoma TGLS = 1,2-2 ]
			[ Hepatocellular Carcinoma TGLS = 1,3,4,5-2+2.1+2.2 ]
Lung		Alveolar/Bronchiolar Adenoma	
		Hepatocellular Carcinoma	Metastatic (Liver)
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Forestomach	Acanthosis	Minimal
	Forestomach	Hyperkeratosis	Minimal
	Forestomach	Hyperplasia	Basal Cell, Minimal
	Forestomach	Inflammation	Chronic Active, Mild
	Forestomach	Ulcer	Minimal
			[ Acanthosis TGLS = 6-3.1 ]
			[ Hyperkeratosis TGLS = 6-3.1 ]
			[ Hyperplasia TGLS = 6-3.1 ]
			[ Inflammation TGLS = 6-3.1 ]
			[ Ulcer TGLS = 6-3.1 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 142	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 541
	<b>DOSE:</b> 10,000 PPM MALE	<b>DISP:</b> Moribund	<b>HISTO:</b> 870701

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH	-
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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 143

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870702

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 4,5-2.1			
Preputial Gland	Duct	Dilatation	Mild
Note: DILATATION TGLs = 2-9			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thyroid Gland		Cyst Multilocular	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 144

TRT#: 3

SEX: Male

DAY ON TEST: 647

DOSE: 10,000 PPM MALE

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Mesenteric	Mammary Gland	Parathyroid Gland	
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Hepatocellular Carcinoma	
		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC	TGLs = 4,5-2.1+2.2		
Note: HEPATOCLR CARC	TGLs = 4,5-2+2.1+2.2		
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Mild
Note: DILATATION	TGLs = 6-9		
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Hematopoietic Cell Proliferation	Moderate
Thymus		Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 145	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> 10,000 PPM MALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860057

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Forestomach	Stomach - Glandular

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**OBSERVATIONS**

Liver		Fatty Change	Moderate
Note: FATTY CHANGE	TGLs = 3-2		
Preputial Gland		Cyst	Multiple, Marked
		Inflammation	Chronic Active, Minimal
[ Cyst TGLS = 2-9 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 146

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 10,000 PPM MALE

**DISP:** Interval Sacrifice

**HISTO:** 860058

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Stomach - Forestomach

Stomach - Glandular

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**OBSERVATIONS**

Liver

Fatty Change

Moderate

Hepatocellular Carcinoma

[ Fatty Change TGLS = 2,5-2+2.1 ]

[ Hepatocellular Carcinoma TGLS = 1-2.1 ]

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 147

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 10,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870704

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 5-2			
Preputial Gland	Duct	Dilatation	Mild
[ Dilatation TGLS = 1-9 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 148	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 457
	<b>DOSE:</b> 10,000 PPM MALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860059

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Forestomach	

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**OBSERVATIONS**

Liver		Fatty Change	Minimal
[ Fatty Change TGLS = 2-2 ]			
Stomach	Glandular	Inflammation	Chronic, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 149

TRT#: 3

SEX: Male

DAY ON TEST: 716

DOSE: 10,000 PPM MALE

DISP: Moribund

HISTO: 870705

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 6-2.1			
Nose		Inflammation	Acute, Minimal
Salivary Glands	Parotid GI	Inflammation	Chronic, Mild
Spleen		Angiectasis	Minimal
		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL TGLs = 7-3			
Note: ANGIECTASIS TGLs = 8-3			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 150

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 10,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870706

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Lung  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Nose  
Prostate  
Spleen  
Thymus

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

**MISSING**

Mammary Gland

**OBSERVATIONS**

Kidney  
Liver

Inflammation  
Hepatocellular Adenoma

Chronic, Minimal

[ Hepatocellular Adenoma TGLS = 2-2 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 151

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 4,5,6,7,8,9,10-2+2.1+2.2			
Note: FATTY CHANGE TGLs = 11-2+2.1+2.2			
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
Note: DILATATION TGLs = 2-9			
Salivary Glands	Parotid GI	Inflammation	Chronic, Mild
	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 152

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870708

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Adrenal Gland - Medulla	Mammary Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		[ Hepatocellular Adenoma TGLS = 6,7-2 ]	
		[ Hepatocellular Carcinoma TGLS = 5-2.1 ]	
Mesentery		Fibrosis	Minimal
		Inflammation	Chronic Active, Mild
		Note: INFLAMMATION TGLs = 3-9	
		[ Fibrosis TGLS = 3-9 ]	
Preputial Gland	Duct	Dilatation	Mild
		[ Dilatation TGLS = 2-10 ]	
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 153

TRT#: 3

SEX: Male

DAY ON TEST: 640

DOSE: 10,000 PPM MALE

DISP: Moribund

HISTO: 870709

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Epididymis	Gallbladder	Heart	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Urinary Bladder		

MISSING

Esophagus	Intestine Large - Colon	Mammary Gland	Parathyroid Gland
Thymus	Thyroid Gland	Trachea	

OBSERVATIONS

Bone Marrow	Myeloid Cell, Sternal	Hyperplasia	Marked
Intestine Large	Cecum	Lymphoma Malignant Mixed	
	Cecum	Ulcer	Marked
Note: LYMPH MAL MIXD TGLs = 2-6.1			
Note: ULCER TGLs = 2-6.1			
Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Mild
Liver		Hematopoietic Cell Proliferation	Mild
		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 5-2.1			
Lung		Alveolar/Bronchiolar Adenoma	
		Leukocytosis	Marked
Note: LEUKOCYTOSIS TGLs = 6-1			
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 3-5.1			
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL TGLs = 4-3			
Testes	Seminif Tub	Atrophy	Minimal
Note: ATROPHY TGLs = 8-4			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:54

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 153

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 640

**DOSE:** 10,000 PPM MALE

**DISP:** Moribund

**HISTO:** 870709

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 154

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870710

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Prostate  
Stomach - Forestomach  
Thyroid Gland

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Nose  
Seminal Vesicle  
Stomach - Glandular  
Urinary Bladder

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Pancreas  
Skin  
Testes

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lung  
Pituitary Gland  
Spleen  
Thymus

MISSING

Mammary Gland

Parathyroid Gland

INSUFFICIENT TISSUE

Trachea

OBSERVATIONS

Brain  
Kidney  
Liver  
  
Note: HEPATOCLR ADEN TGLs = 4,5,6-2+2.1  
Preputial Gland  
[ Dilatation TGLS = 2-9 ]  
Salivary Glands

Thalamus  
  
  
Duct  
Submandibul GI

Mineralization  
Inflammation  
Clear Cell Focus  
Hepatocellular Adenoma  
  
Dilatation  
Inflammation

Minimal  
Chronic, Minimal  
Minimal  
Multiple  
  
Mild  
Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 155

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Intestine Small	Jejunum	Adenocarcinoma	
[ Adenocarcinoma TGLS = 4-6 ]			
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 6,7,8,9,10-2+2.1			
Pituitary Gland	Pars Distalis	Cyst	Minimal
Salivary Glands	Parotid GI	Inflammation	Chronic, Minimal
	Submandibul GI	Inflammation	Chronic, Minimal
Skin	Subcut Tiss	Hemangioma	
[ Hemangioma TGLS = 3-9 ]			
Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 156	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 399
	<b>DOSE:</b> 10,000 PPM MALE	<b>DISP:</b> Dead	<b>HISTO:</b> 870712

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

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**MISSING**

Esophagus	Intestine Large - Rectum	Mammary Gland	Parathyroid Gland
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Islets, Pancreatic		Adenoma	
Note: ADENOMA TGLs = 1-5.1.1			
Note: WAS ACTUALLY AN ISLET CELL ADENOMA.			
Note: WHAT THE PROSECTOR THOUGHT WAS A PANCREATIC LYMPH NODE			
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Mild
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 157

TRT#: 3

SEX: Male

DAY ON TEST: 734

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870713

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		[ Clear Cell Focus TGLS = 4-2 ]	
		[ Hepatocellular Adenoma TGLS = 2,4-2 ]	
		[ Hepatocellular Carcinoma TGLS = 3-2.1 ]	
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Salivary Glands	Parotid GI	Inflammation	Chronic, Minimal
	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 158

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 10,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 8707014

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hemangiosarcoma	
		Mixed Cell Focus	Mild
[ Hemangiosarcoma TGLS = 3-2 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Skin	Subcut Tiss	Hemangioma	
[ Hemangioma TGLS = 2-9 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 159

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870715

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**MISSING**

Mammary Gland

**OBSERVATIONS**

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 3-2			
Nose		Inflammation	Acute, Minimal
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Mild
[ Dilatation TGLS = 2-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 160

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 10,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870716

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**MISSING**

Mammary Gland

**OBSERVATIONS**

Kidney	Inflammation	Chronic, Minimal
Liver	Clear Cell Focus	Minimal
	Fatty Change	Minimal
	Hepatocellular Adenoma	Multiple

Note: HEPATOCLR ADEN TGLs = 3,4,5,6,7,8-2+2.1+2.2

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 161	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 735
	<b>DOSE:</b> 10,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870717

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

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**MISSING**

Lymph Node - Mesenteric	Mammary Gland
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**OBSERVATIONS**

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple

[ Hepatocellular Adenoma TGLS = 2,3-2.1 ]

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 162

TRT#: 3

SEX: Male

DAY ON TEST: 725

DOSE: 10,000 PPM MALE

DISP: Dead

HISTO: 870718

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Nose	Pancreas	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Mesenteric	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Eye	Cornea	Inflammation	Chronic Active, Mild
Harderian Gland		Adenoma	
[ Adenoma TGLS = 10-9 ]			
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatoblastoma	
		Hepatocellular Adenoma	Multiple
[ Hepatoblastoma TGLS = 6-2.1 ]			
[ Hepatocellular Adenoma TGLS = 7,8-2+2.1 ]			
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 4-5 ]			
Skin		Parakeratosis	Minimal
		Ulcer	Minimal
[ Parakeratosis TGLS = 1-10 ]			
[ Ulcer TGLS = 1-10 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 163

TRT#: 3

SEX: Male

DAY ON TEST: 224

DOSE: 10,000 PPM MALE

DISP: Dead

HISTO: 870719

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	

MISSING

Bone Marrow	Mammary Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Lymphoma Malignant Mixed	
Bone Marrow			
Note: THE STERNAL BONE AND BONE MARROW WAS MISSING. MALIGNANT			
Note: NOT A PROTOCOL REQUIRED TISSUE.			
Note: OF THE SKULL ALTHOUGH IT WAS NOT LOGGED IN SINCE IT IS			
Note: LYMPHOMA MIXED TYPE COULD BE SEEN IN THE BONE MARROW			
Brain		Lymphoma Malignant Mixed	
	Thalamus	Mineralization	Minimal
Epididymis		Lymphoma Malignant Mixed	
Gallbladder		Lymphoma Malignant Mixed	
Heart		Lymphoma Malignant Mixed	
Intestine Small	Duodenum	Autolysis	Moderate
	Ileum	Autolysis	Marked
Kidney		Lymphoma Malignant Mixed	
Liver		Lymphoma Malignant Mixed	
Lung		Lymphoma Malignant Mixed	
Lymph Node	Bronchial	Lymphoma Malignant Mixed	
	Inguinal	Lymphoma Malignant Mixed	
	Lumbar	Lymphoma Malignant Mixed	
	Mandibular	Lymphoma Malignant Mixed	
	Mediastinal	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
	Renal	Lymphoma Malignant Mixed	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 163

TRT#: 3

SEX: Male

DAY ON TEST: 224

DOSE: 10,000 PPM MALE

DISP: Dead

HISTO: 870719

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LYMPH MAL MIXD TGLs = 8-1

Note: LYMPH MAL MIXD TGLs = 7-5

Note: LYMPH MAL MIXD TGLs = 10-11

Note: LYMPH MAL MIXD TGLs = 11-12

[ Lymphoma Malignant Mixed TGLS = 2-5 ]

[ Lymphoma Malignant Mixed TGLS = 5-5 ]

[ Lymphoma Malignant Mixed TGLS = 9-10 ]

Nose Lymphoma Malignant Mixed

Pancreas Lymphoma Malignant Mixed

Pituitary Gland Pars Distalis Lymphoma Malignant Mixed

Pars Intermed Lymphoma Malignant Mixed

Pars Nervosa Lymphoma Malignant Mixed

Preputial Gland Duct Dilatation Mild

Note: DILATATION TGLs = 3-9

Prostate Lymphoma Malignant Undifferentiated Cell Type

Seminal Vesicle Lymphoma Malignant Mixed

Spleen Lymphoma Malignant Mixed

Note: LYMPH MAL MIXD TGLs = 12-3

Testes Lymphoma Malignant Mixed

Thymus Lymphoma Malignant Mixed

Note: LYMPH MAL MIXD TGLs = 6-5

Note: THE THYMUS COULD NOT BE HISTOLOGICALLY IDENTIFIED

Note: IN SLIDE 5; HOWEVER, IT IS PRESUMED THE ARCHITECTURE

Note: WAS EFFACED BY THE LYMPHOMA.

Urinary Bladder Lymphoma Malignant Mixed

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 164

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 10,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870720

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Prostate  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Nose  
Seminal Vesicle  
Testes

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Pancreas  
Skin  
Thyroid Gland

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lung  
Pituitary Gland  
Stomach - Forestomach  
Trachea

**MISSING**

Mammary Gland

**INSUFFICIENT TISSUE**

Parathyroid Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 2,3,4-2+2.1 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Depletion Lymphoid	Moderate
Thymus		Cyst	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 165

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 10,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870721

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
[ Clear Cell Focus TGLS = 7-2.1 ]			
[ Fatty Change TGLS = 7-2.1 ]			
[ Hepatocellular Adenoma TGLS = 4,8-2+2.1 ]			
[ Hepatocellular Carcinoma TGLS = 5,6-2.2 ]			
Mesentery		Fibrosis	Minimal
		Inflammation	Chronic Active, Mild
Note: INFLAMMATION TGLs = 3-9			
[ Fibrosis TGLS = 3-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 166

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 639

**DOSE:** 10,000 PPM MALE

**DISP:** Dead

**HISTO:** 870722

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Mammary Gland

**OBSERVATIONS**

Intestine Small	Duodenum	Autolysis	Marked
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
Preputial Gland	Duct	Dilatation	Mild
[ Dilatation TGLS = 3-9 ]			
Spleen		Hemangiosarcoma	
Note: HEMANGIOSARCOMA.			
Note: WHICH PROBABLY CAME FROM A RUPTURE OF THE SPLENIC			
Note: THE ABDOMINAL FLUID IN SLIDE 11 APPEARS TO BE BLOOD			
Note: HEMANGIOSARC TGLs = 9-3.1			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 167

TRT#: 3

SEX: Male

DAY ON TEST: 595

DOSE: 10,000 PPM MALE

DISP: Dead

HISTO: 870723

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Epididymis  
Intestine Large - Colon  
Intestine Small - Jejunum  
Pancreas  
Seminal Vesicle  
Testes

Bone  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Parathyroid Gland  
Skin  
Trachea

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lung  
Pituitary Gland  
Stomach - Forestomach  
Urinary Bladder

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Nose  
Prostate  
Stomach - Glandular

MISSING

Adrenal Gland - Medulla  
Thymus

Gallbladder

Lymph Node - Mesenteric

Mammary Gland

OBSERVATIONS

Kidney  
Note: GLMSCLEROSIS TGLs = 3-3  
Liver  
Note: HEPATOCLR CARC TGLs = 5,6,9-2+2.1+2.2  
Salivary Glands  
Spleen  
Thyroid Gland  
Note: ADENOCARC TGLs = 4-5

Submandibul GI

Glomerulosclerosis  
Inflammation  
Hepatocellular Carcinoma  
Inflammation  
Depletion Lymphoid  
Adenocarcinoma

Mild  
Chronic, Mild  
Multiple  
Chronic, Minimal  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 168

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 10,000 PPM MALE

**DISP:** Interval Sacrifice

**HISTO:** 860060

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum  
Intestine Small - Ileum

Intestine Large - Colon  
Intestine Small - Jejunum

Intestine Large - Rectum  
Stomach - Forestomach

Intestine Small - Duodenum  
Stomach - Glandular

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**OBSERVATIONS**

Liver

Fatty Change  
Hepatocellular Adenoma

Moderate

[ Fatty Change TGLS = 1-2 ]

[ Hepatocellular Adenoma TGLS = 2-2 ]

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 169

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870724

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Adrenal Gland - Medulla	Mammary Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Fatty Change	Mild
Lung		Alveolar/Bronchiolar Adenoma	Multiple
Note: ALV BRON ADEN TGLs = 6,7-1.1+1.2			
Note: TO HANDLING AT NECROPSY.			
Note: THE FOCAL HEMORRHAGES IN THE LUNG ARE PROBABLY RELATED			
Preputial Gland	Duct	Dilatation	Mild
Note: DILATATION TGLs = 3-9			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:54

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

**ANIMAL ID:** 170

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 10,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870725

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Lung  
Parathyroid Gland  
Skin  
Testes  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pituitary Gland  
Spleen  
Thymus

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Nose  
Prostate  
Stomach - Forestomach  
Thyroid Gland

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Pancreas  
Seminal Vesicle  
Stomach - Glandular  
Trachea

**MISSING**

Mammary Gland

**OBSERVATIONS**

Kidney  
Liver

Inflammation  
Fatty Change  
Hepatocellular Adenoma

Chronic, Minimal  
Mild  
Multiple

Note: HEPATOCLR ADEN TGLs = 2,3-2

Note: FATTY CHANGE TGLs = 4-2

Salivary Glands

Submandibul GI

Inflammation

Chronic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 171	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 455
	<b>DOSE:</b> 10,000 PPM MALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860061

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Forestomach	

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**OBSERVATIONS**

Liver		Fatty Change Hepatocellular Carcinoma Inflammation Necrosis	Mild  Chronic Active, Minimal Coagulative, Minimal
Note: FATTY CHANGE TGLs = 5-2+2.1 Note: SMALL NUMBERS OF NEUTROPHILS AND MONONUCLEAR CELLS WERE Note: NOTED SURROUNDING THE RARE NECROTIC HEPATOCYTE.			
Lymph Node	Mesenteric Mesenteric Mesenteric	Hyperplasia Infiltration Cellular Pigmentation	Lymphoid, Minimal Histiocyte, Minimal Minimal
Note: HYPERPLASIA TGLs = 3-5			
Preputial Gland		Cyst Inflammation	Multiple, Moderate Chronic, Minimal
[ Cyst TGLs = 2-9 ]			
Stomach	Glandular	Mineralization	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 172

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 455

**DOSE:** 10,000 PPM MALE

**DISP:** Interval Sacrifice

**HISTO:** 860062

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Spleen

Stomach - Forestomach

Stomach - Glandular

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**OBSERVATIONS**

Liver

Fatty Change

Moderate

Note: FATTY CHANGE TGLs = 3-2

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 173

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870726

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Nose	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Note: NECROSIS TGLs = 5-2			
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Minimal
Note: HYPERPLASIA TGLs = 3-5			
Pancreas	Acinus	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 174

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870727

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 5-2			
Nose		Inflammation	Acute, Minimal
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Mild
[ Dilatation TGLS = 2-9 ]			
Salivary Glands	Sublingual GI	Inflammation	Chronic, Mild
Seminal Vesicle		Inflammation	Chronic Active, Mild
Note: INFLAMMATION TGLs = 3-4+4.1			
Note: THERE WERE NUMEROUS CHOLESTEROL CLEFTS AND CHRONIC ACTIVE			
Note: INFLAMMATORY CELLS IN FOCAL AREAS OF THE SEMINAL			
Note: VESICLE SECRETION.			
Note: THE CAPSULE.			
Note: FIBROSIS AND INFLAMMATORY CELLS ARE ALSO PRESENT IN			
Thymus		Cyst	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 175

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 10,000 PPM MALE

**DISP:** Interval Sacrifice

**HISTO:** 860063

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Intestine Large - Cecum  
Intestine Small - Ileum

Intestine Large - Colon  
Intestine Small - Jejunum

Intestine Large - Rectum  
Skin

Intestine Small - Duodenum

**OBSERVATIONS**

Liver  
Note: FATTY CHANGE TGLs = 4-2  
Preputial Gland

Fatty Change  
  
Cyst  
Inflammation

Marked  
  
Multiple, Moderate  
Chronic, Minimal

Note: DILATION OF DUCTS IN THE PREPUCIAL GLANDS, DILATION WOULD  
Note: PROBABLY BE PREFERABLE.  
Note: ALTHOUGH THE TERMINOLOGY CYST HAS BEEN USED FOR THE

Stomach  
Forestomach  
Glandular  
Glandular

Inflammation  
Inflammation  
Mineralization

Chronic Active, Minimal  
Chronic Active, Minimal  
Minimal

PRIMARY CAUSE OF DEATH

-



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 176

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870728

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Pancreas	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Mild
Liver		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Note: HEPATOCLR ADEN TGLs = 3,4,5,6,8-2+2.1+2.2			
Nose		Inflammation	Acute, Minimal
Preputial Gland	Duct	Dilatation	Mild
Note: DILATATION TGLs = 7-9			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 177

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Parathyroid Gland
---------------	-------------------

OBSERVATIONS

Intestine Small [ Adenocarcinoma TGLS = 2-6 ]	Jejunum	Adenocarcinoma	
Kidney		Inflammation	Chronic, Minimal
Liver Note: HEPATOCLR ADEN TGLs = 3-2		Hepatocellular Adenoma	Multiple
Mesentery Note: PERITONEAL AREA. Note: HEMORRHAGE TGLs = 4-9 Note: THE DIAGNOSIS LOGGED IN AS TISSUE NOS HEMORRHAGE Note: APPLIED TO A LESION WHICH OCCURRED IN THE RETRO-		Hemorrhage	Mild
Pancreas		Cytoplasmic Alteration	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 178

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 10,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870730

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

**MISSING**

Mammary Gland

**INSUFFICIENT TISSUE**

Lymph Node - Mesenteric

**OBSERVATIONS**

Kidney	Inflammation	Chronic, Minimal
Liver	Eosinophilic Focus	Mild
	Hepatocellular Adenoma	
Spleen	Depletion Lymphoid	Mild
Urinary Bladder	Calculus Gross Observation	

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 179

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 708

**DOSE:** 10,000 PPM MALE

**DISP:** Moribund

**HISTO:** 870732

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Pancreas	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

**MISSING**

Mammary Gland	Parathyroid Gland	Thymus
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**OBSERVATIONS**

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 2-2.1 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 180

TRT#: 3

SEX: Male

DAY ON TEST: 736

DOSE: 10,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870731

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Nose  
Seminal Vesicle  
Stomach - Glandular  
Trachea

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Pancreas  
Skin  
Testes  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Pituitary Gland  
Spleen  
Thymus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Prostate  
Stomach - Forestomach  
Thyroid Gland

MISSING

Mammary Gland

Parathyroid Gland

OBSERVATIONS

Brain  
Epididymis  
Kidney  
  
[ Cyst TGLS = 2-3.1 ]  
Liver

Thalamus

Mineralization  
Inflammation  
Cyst  
Inflammation

Minimal  
Chronic Active, Mild  
Minimal  
Chronic, Minimal

Fatty Change  
Hepatocellular Adenoma

Minimal

Note: HEPATOCLR ADEN TGLs = 3-2

Salivary Glands

Submandibul GI

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 181

TRT#: 4

SEX: Male

DAY ON TEST: 455

DOSE: 50,000 PPM MALE

DISP: Interval Sacrifice

HISTO: 853371

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Gallbladder	Heart	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Nose
Pancreas	Pituitary Gland	Spleen	Testes
Thyroid Gland	Trachea		

MISSING

Mammary Gland	Parathyroid Gland	Thymus	
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain	Thalamus	Mineralization	Minimal
Epididymis		Inflammation	Chronic, Minimal
Intestine Large	Cecum, Epithelium	Hyperplasia	Moderate
	Cecum, Epithelium	Pigmentation	Minimal
	Colon, Epithelium	Pigmentation	Minimal
	Cecum, Epithelium, Submucosa	Proliferation	Moderate
Note: IN A FOCAL AREA OF THE CECUM THERE WAS PROLIFERATION OF			
Note: HYPERPLASIA TGLs = 7,8-6			
Note: CROWDING OF CELLS AND HYPERCHROMICITY OF NUCLEI.			
Note: SPACES. IN ADDITION, THE MUCOSA REVEALED HYPERPLASIA WITH			
Note: EPITHELIUM IN THE SUBMUCOSA WITH THE FORMATION OF GLANDULAR			
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Note: PIGMENT TGLs = 5-6			
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Mild
Note: FATTY CHANGE TGLs = 4-2			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Preputial Gland		Cyst	Multiple, Moderate
Note: CYST TGLs = 9-9			
Prostate		Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 181	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 455
	<b>DOSE:</b> 50,000 PPM MALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 853371

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Skin	Epidermis	Inflammation	Acute, Mild
	Subcut Tiss	Inflammation	Chronic Active, Mild
Stomach	Epithelium, Forestomach	Hyperplasia	Mild
	Glandular	Inflammation	Chronic, Minimal

Note: AT THE SQUAMOUS GLANDULAR JUNCTION THERE WERE SOME

Note: SUGGESTING THE DIAGNOSIS HYPERPLASIA.

Note: SQUAMOUS EPITHELIAL ELEMENTS IN THE LAMINA PROPRIA

Urinary Bladder	Calculus Gross Observation
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 182

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 50,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870476

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Heart		Lymphoma Malignant Mixed	
Intestine Small	Duodenum	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 4-6.1			
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 7,8,9,10,11,13-2+2.1			
Lymph Node	Lumbar	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 6-3.1			
Note: LYMPH MAL MIXD TGLs = 5-5			
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Mild
[ Dilatation TGLS = 2-9 ]			
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 3-3			
Thymus		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 12-2			

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 183

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 455

**DOSE:** 50,000 PPM MALE

**DISP:** Interval Sacrifice

**HISTO:** 853372

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Skin	Stomach - Forestomach
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Epididymis		Inflammation	Chronic, Minimal
Intestine Large	Cecum, Epithelium	Pigmentation	Minimal
Note: PIGMENT TGLs = 3-6			
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Fatty Change	Marked
[ Fatty Change TGLS = 2-2 ]			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Preputial Gland		Cyst	Multiple, Mild
Prostate		Inflammation	Chronic, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Depletion Lymphoid	Moderate
Stomach	Epithelium, Glandular	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 184

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 50,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870477

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**MISSING**

Gallbladder	Mammary Gland
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**PRESENT BUT NOT EXAMINED**

Seminal Vesicle

**OBSERVATIONS**

Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Hepatocellular Carcinoma	Multiple
Note: HEPATOCLR CARC	TGLs = 4,5-2+2.1		
Note: HEPATOCLR ADEN	TGLs = 4,5-2+2.1		
Lung		Alveolar/Bronchiolar Adenoma	Multiple
Note: ALV BRON ADEN	TGLs = 6,7-1.1		
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 185	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 50,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870478

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Mild
		Fatty Change	Mild
Note: FATTY CHANGE	TGLs = 3-2+2.1		
Lung		Alveolar/Bronchiolar Adenoma	
Mesentery		Fibrosis	Minimal
		Inflammation	Chronic Active, Minimal
Note: FIBROSIS	TGLs = 4-10		
Note: INFLAMMATION	TGLs = 4-10		
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
[ Dilatation TGLS = 2-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 186	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 678
	<b>DOSE:</b> 50,000 PPM MALE	<b>DISP:</b> Moribund	<b>HISTO:</b> 870479

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Trachea	Urinary Bladder

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**MISSING**

Mammary Gland

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**INSUFFICIENT TISSUE**

Thymus

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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Glomerulosclerosis	Mild
		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	Multiple
Note: HEPATOCLR CARC TGLs = 8,9-2+2.1+2.2			
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Lymph Node	Mesenteric	Angiectasis	Minimal
Note: ANGIECTASIS TGLs = 3-5			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thyroid Gland	Follicular Cel	Adenoma	

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 187

TRT#: 4

SEX: Male

DAY ON TEST: 598

DOSE: 50,000 PPM MALE

DISP: Moribund

HISTO: 870475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Intest Large			
Note: ANY PIGMENT IN THE COVERING EPITHELIUM.			
Note: GROSSLY YELLOW; HOWEVER, I WAS UNABLE TO APPRECIATE			
Note: THE CONTENT OF THE LARGE INTESTINE WAS APPARENTLY			
Intest Small			
Note: MENTATION IN THE EPITHELIUM.			
Note: YELLOW; HOWEVER, I WAS UNABLE TO APPRECIATE PIG-			
Note: THE CONTENT OF THE SMALL INTESTINE MAY HAVE BEEN			
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
Note: [ HEPATOCLR CARC ] TGLs = 6-2.1			
Note: [ HEPATOCLR ADEN ] TGLs = 5-2			
Mesentery		Fibrosis	Mild
		Necrosis	Mild
[ Fibrosis TGLS = 1-5 ]			
[ Necrosis TGLS = 1-5 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 187

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 598

**DOSE:** 50,000 PPM MALE

**DISP:** Moribund

**HISTO:** 870475

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 188

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870480

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Kidney
Nose	Pancreas	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Trachea
Urinary Bladder			

**MISSING**

Lymph Node - Mesenteric	Mammary Gland	Parathyroid Gland
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**OBSERVATIONS**

Intestine Small Note: HYPERPLASIA TGLs = 3-6	Jejunum	Hyperplasia	Lymphoid, Mild
Liver		Fatty Change Hepatocellular Adenoma Alveolar/Bronchiolar Carcinoma	Mild
Lung Note: ADENOMA. Note: ALV BRON CARC TGLs = 2-1 Note: MULTIPLE FOCI OF INVASION INTO BRONCHIOLES AND IN- Note: CREASED PLEOMORPHISM SUGGEST A CARCINOMA RATHER THAN			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thyroid Gland	Follicular Cel	Adenoma Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 189

TRT#: 4

SEX: Male

DAY ON TEST: 724

DOSE: 50,000 PPM MALE

DISP: Moribund

HISTO: 870481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
Note: [ HEPATOCLR CARC ] TGLs = 2-2.2,2.3			
Note: [ HEPATOCLR ADEN ] TGLs = 3-2.1			
Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 4-1 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 190

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870482

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney	Renal Tubule	Carcinoma	
[ Carcinoma TGLS = 5-3+3.1 ]			
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 6-2.1+2.2			
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Note: HEPATOCLR CARC TGLs = 4-1			
Lymph Node	Mesenteric	Angiectasis	Mild
Note: ANGIECTASIS TGLs = 7-5			
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
[ Dilatation TGLS = 2-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 191

TRT#: 4

SEX: Male

DAY ON TEST: 680

DOSE: 50,000 PPM MALE

DISP: Moribund

HISTO: 870483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

MISSING

Mammary Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
Note: HEPATOCLR CARC	TGLs = 3,4-2+2.1		
Note: HEPATOCLR ADEN	TGLs = 3,6-2+2.1		
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Lymph Node	Mesenteric	Angiectasis	Minimal
Prostate	Epithelium	Hyperplasia	Mild
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Urinary Bladder		Calculus Micro Observation Only	
Note: CALCUS MIC OBS	TGLs = 5-1.1		

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 192

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 50,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870484

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
Note: FATTY CHANGE	TGLs = 3-2		
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Urinary Bladder		Calculus Gross Observation	

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 193

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Eye	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea		

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Harderian Gland		Adenoma	
[ Adenoma TGLS = 6-9 ]			
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Fatty Change	Minimal
Lung	Alveolar Epith	Hyperplasia	Minimal
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 5-5.1			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Urinary Bladder		Calculus Gross Observation	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 194	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 50,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870486

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

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**MISSING**

Mammary Gland	Parathyroid Gland
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	Minimal
[ Hepatocellular Adenoma TGLS = 2-2 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 195

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870487

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Nose	Pancreas
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

**MISSING**

Gallbladder	Mammary Gland	Parathyroid Gland	Thymus
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Epididymis		Granuloma Sperm	Mild
Note: GRANLOMA SPERM TGLs = 4-5.1			
Liver		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 3,5-2+2.1			
Lung		Alveolar/Bronchiolar Adenoma	
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 2-5.1 ]			
Spleen		Hematopoietic Cell Proliferation	Moderate
		Lymphoma Malignant Mixed	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 196

TRT#: 4

SEX: Male

DAY ON TEST: 724

DOSE: 50,000 PPM MALE

DISP: Moribund

HISTO: 870488

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Ear	Epididymis	Esophagus	Eye
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Harderian Gland		Adenoma	
[ Adenoma TGLS = 2-9 ]			
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 3-2.1 ]			
Lung		Alveolar/Bronchiolar Adenoma	
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 197	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 50,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870489

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

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**MISSING**

Mammary Gland	Thymus
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Preputial Gland	Duct	Dilatation	Mild
Note: DILATATION TGLs = 2-6			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 198

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870490

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	

Note: HEPATOCLR CARC TGLs = 2-2.1

[ Fatty Change TGLS = 4-2 ]

[ Hepatocellular Adenoma TGLS = 2,3-2 ]

Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 199

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Eye	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Gallbladder	Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Harderian Gland	Bilateral	Adenoma	
[ Adenoma TGLS = 8,9-9+10 ]			
Liver		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 5,6,7-2+2.1			
Mesentery		Fibrosis	Mild
		Inflammation	Chronic Active, Mild
Note: INFLAMMATION TGLs = 3-6			
[ Fibrosis TGLS = 3-6 ]			
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thymus		Necrosis	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 200

TRT#: 4

SEX: Male

DAY ON TEST: 537

DOSE: 50,000 PPM MALE

DISP: Moribund

HISTO: 870492

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Eye	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Lung	Lymph Node - Mesenteric	Pancreas
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland	Thymus	
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Harderian Gland		Adenoma	
Note: ADENOMA	TGLs = 8-9		
Intest Large			
Note: OF THE CECUM AND COLON. IT COULD NOT BE APPRECIATED			
Note: IN THE OTHER SEGMENTS OF THE BOWEL.			
Note: VERY FAINT PIGMENTATION WAS NOTED IN THE EPITHELIUM			
Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
[ Hepatocellular Adenoma TGLS = 9-2 ]			
[ Hepatocellular Carcinoma TGLS = 2-2.1 ]			
Nose		Inflammation	Acute, Minimal
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
[ Dilatation TGLS = 3-6 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 201

TRT#: 4

SEX: Male

DAY ON TEST: 437

DOSE: 50,000 PPM MALE

DISP: Dead

HISTO: 870493

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Epididymis
Esophagus	Heart	Lung	Nose
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Testes		

MISSING

Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Pancreas
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INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Bone Marrow		Autolysis	Marked
Brain	Thalamus	Mineralization	Minimal
Gallbladder		Autolysis	Marked
Intestine Large	Cecum	Autolysis	Marked
	Colon	Autolysis	Marked
	Rectum	Autolysis	Marked
Intestine Small	Duodenum	Autolysis	Marked
	Ileum	Autolysis	Marked
	Jejunum	Autolysis	Marked
Kidney		Autolysis	Moderate
Liver		Autolysis	Marked
Skin		Autolysis	Marked
Spleen		Autolysis	Marked
Stomach	Forestomach	Autolysis	Marked
	Glandular	Autolysis	Marked
Thyroid Gland		Autolysis	Marked
Tissue NOS			
Note: AUTOLYZED LIVER.			
Note: THE TISSUE DESIGNATED TISSUE NOS WAS A PIECE OF			
Trachea		Autolysis	Marked
Urinary Bladder		Autolysis	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 201

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 437

**DOSE:** 50,000 PPM MALE

**DISP:** Dead

**HISTO:** 870493

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 202

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 50,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870494

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone	Bone Marrow	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Lung	Lymph Node - Mesenteric	Nose
Pancreas	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**MISSING**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Mammary Gland	Parathyroid Gland
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Epididymis		Inflammation	Chronic Active, Minimal
Liver		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	Minimal
[ Mixed Cell Focus TGLS = 2,4-2.1 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 203

TRT#: 4

SEX: Male

DAY ON TEST: 457

DOSE: 50,000 PPM MALE

DISP: Interval Sacrifice

HISTO: 853373

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Pancreas	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain	Thalamus	Mineralization	Minimal
Intestine Large	Cecum, Epithelium	Pigmentation	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Moderate
		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 4,7-2+3.1			
Note: FATTY CHANGE TGLs = 6-2			
Lung		Metaplasia	Osseous, Minimal
Mesentery		Fibrosis	Mild
		Inflammation	Chronic, Minimal
		Necrosis	Coagulative, Moderate
Note: FIBROSIS TGLs = 2-6			
Note: NECROSIS TGLs = 2-6			
Preputial Gland		Cyst	Multiple, Moderate
Prostate		Inflammation	Chronic, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Epithelium, Glandular	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 204

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 50,000 PPM MALE

**DISP:** Interval Sacrifice

**HISTO:** 853374

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Skin
Spleen	Stomach - Forestomach	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Intestine Large	Cecum, Epithelium	Pigmentation	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Note: PIGMENT	TGLs = 4-6		
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Marked
[ Fatty Change TGLS = 5-2 ]			
Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 6-1 ]			
Preputial Gland		Cyst	Multiple, Moderate
		Inflammation	Chronic, Minimal
Note: CYST	TGLs = 9-9		
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Epithelium, Glandular	Pigmentation	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 205

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870495

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Prostate  
Stomach - Forestomach  
Thyroid Gland

Adrenal Gland - Medulla  
Epididymis  
Heart  
Intestine Small - Duodenum  
Kidney  
Pancreas  
Seminal Vesicle  
Stomach - Glandular  
Trachea

Bone  
Esophagus  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Parathyroid Gland  
Skin  
Testes  
Urinary Bladder

Bone Marrow  
Eye  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pituitary Gland  
Spleen  
Thymus

**MISSING**

Mammary Gland

**OBSERVATIONS**

Harderian Gland

[ Adenoma TGLS = 2-9 ]

Adenoma

Liver

Note: [ MIXED CL FOCUS ] TGLs = 4-2.1

Mixed Cell Focus

Mild

Preputial Gland

[ Dilatation TGLS = 3-10 ]

Duct

Dilatation

Moderate

Salivary Glands

Submandibul GI

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 206

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Intestine Small	Duodenum	Hyperplasia	Lymphoid, Marked
Note: HYPERPLASIA TGLs = 4-6			
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Moderate
		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 5,6,7-2			
Pancreas		Cytoplasmic Alteration	Minimal
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
Note: DILATATION TGLs = 2-6			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 207

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870497

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

**MISSING**

Mammary Gland	Parathyroid Gland
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**INSUFFICIENT TISSUE**

Thymus

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 2,3,4-2+2.1 ]			
Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 5-1 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 208

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870498

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Mild
		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN	TGLs = 5,6-2+2.1		
Note: FATTY CHANGE	TGLs = 3,4-2+2.1		
Preputial Gland	Duct	Dilatation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 209

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870499

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Nose  
Seminal Vesicle  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Islets, Pancreatic  
Pancreas  
Skin  
Testes

Bone  
Gallbladder  
Intestine Large - Rectum  
Lung  
Pituitary Gland  
Spleen  
Thyroid Gland

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lymph Node - Mesenteric  
Prostate  
Stomach - Forestomach  
Trachea

**MISSING**

Mammary Gland

Parathyroid Gland

Thymus

**OBSERVATIONS**

Brain  
Intestine Small  
Kidney  
Liver

Thalamus  
Ileum

Mineralization  
Hyperplasia  
Inflammation  
Fatty Change  
Hepatocellular Adenoma  
Hepatocellular Carcinoma

Minimal  
Lymphoid, Moderate  
Chronic, Minimal  
Minimal  
Multiple  
Multiple

[ Fatty Change TGLS = 2,4-2.1+2.2 ]

[ Hepatocellular Adenoma TGLS = 2,3,5-2+2.2+2.3 ]

Salivary Glands

Submandibul GI

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 210

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870500

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Nose  
Seminal Vesicle  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Pancreas  
Skin  
Testes

Bone  
Eye  
Intestine Large - Rectum  
Islets, Pancreatic  
Pituitary Gland  
Spleen  
Thyroid Gland

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lung  
Prostate  
Stomach - Forestomach  
Trachea

MISSING

Gallbladder  
Thymus

Lymph Node - Mesenteric

Mammary Gland

Parathyroid Gland

OBSERVATIONS

Brain  
Harderian Gland  
Note: ADENOMA TGLs = 5-9  
Kidney  
Liver

Thalamus

Mineralization  
Adenoma  
Inflammation  
Fatty Change  
Hepatocellular Adenoma  
Hepatocellular Carcinoma

Minimal  
Chronic, Minimal  
Minimal

Note: [ HEPATOCLR ADEN ] TGLs = 2-2  
Note: [ HEPATOCLR CARC ] TGLs = 1-2.1

Salivary Glands

Submandibul GI

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 211

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Mild
		Fatty Change	Minimal
		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 5-2			
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 6-1			
Lymph Node	Mediastinal	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 4-5.1			
Note: LYMPH MAL MIXD TGLs = 3-5			
Preputial Gland		Inflammation	Chronic Active, Mild
Note: INFLAMMATION TGLs = 2-6			
Note: HISTIOCYTES AND MULTINUCLEATED GIANT CELLS WERE			
Note: NOTED IN THE INTERSTITIUM OF ONE PREPUCIAL GLAND.			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Lymphoma Malignant Mixed	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 211

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 50,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870501

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 212

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Pancreas	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Trachea			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 6-2.1			
Mesentery		Fibrosis	Minimal
		Inflammation	Chronic Active, Mild
Note: FIBROSIS TGLs = 5-7			
Note: INFLAMMATION TGLs = 5-7			
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
Note: DILATATION TGLs = 2,3-6			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Urinary Bladder		Calculus Micro Observation Only	
Note: CALCUS MIC OBS TGLs = 4-1			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 213

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 50,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870503

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lymph Node - Mesenteric	Nose	Pancreas	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**MISSING**

Mammary Gland	Parathyroid Gland
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Liver		Hepatocellular Adenoma	
Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Minimal
	[ Alveolar/Bronchiolar Carcinoma TGLS = 2-1 ]		
	[ Hyperplasia TGLS = 4-1 ]		
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 214

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 50,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870504

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
Preputial Gland	Duct	Dilatation	Mild
[ Dilatation TGLS = 2-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 215

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870505

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Trachea	Urinary Bladder		

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 4-5			
Nose		Inflammation	Acute, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 216

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 50,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870506

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Kidney	Nose
Pancreas	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**MISSING**

Mammary Gland

**INSUFFICIENT TISSUE**

Parathyroid Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Intestine Small	Jejunum	Inflammation	Chronic Active, Mild
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 2-2			
Lung		Alveolar/Bronchiolar Adenoma	
Lymph Node	Mesenteric	Angiectasis	Minimal
	Mediastinal	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 3-5			
Pituitary Gland	Pars Distalis	Cyst	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 217	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 50,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870507

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

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**MISSING**

Mammary Gland	Thymus
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 5,6-2 [ Mixed Cell Focus TGLS = 3-2.1 ]			
Preputial Gland	Duct	Dilatation	Mild
[ Dilatation TGLS = 2-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Angiectasis	Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 218

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870508

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

**MISSING**

Mammary Gland	Thymus
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	
		Mixed Cell Focus	Minimal
		Necrosis	Minimal
		[ Hepatocellular Carcinoma TGLS = 2-2.1 ]	
		[ Mixed Cell Focus TGLS = 3-2 ]	
		[ Necrosis TGLS = 3-2 ]	
Preputial Gland	Duct	Dilatation	Mild
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 219

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870509

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**MISSING**

Mammary Gland

**INSUFFICIENT TISSUE**

Parathyroid Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 3,4-2.1 ]		
Lung		Alveolar/Bronchiolar Adenoma	
Preputial Gland	Duct	Dilatation	Mild
	[ Dilatation TGLS = 2-9 ]		
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 220

TRT#: 4

SEX: Male

DAY ON TEST: 457

DOSE: 50,000 PPM MALE

DISP: Interval Sacrifice

HISTO: 853375

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic	Lung
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Intestine Large	Cecum, Epithelium	Pigmentation	Minimal
	Colon, Epithelium	Pigmentation	Minimal
Note: PIGMENT TGLs = 7-6			
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
	Epithelium, Jejunum	Pigmentation	Minimal
Note: PIGMENT TGLs = 6-6			
Kidney	Renal Tubule	Mineralization	Minimal
Liver		Fatty Change	Moderate
[ Fatty Change TGLS = 4-2 ]			
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 2-5			
Spleen		Lymphoma Malignant Mixed	
Note: MESENTERIC LYMPH NODE INVOLVEMENT.			
Note: THIS APPEARS TO BE AN EARLY LYMPHOMA WITH SPLENIC AND			
Note: LYMPH MAL MIXD TGLs = 3-3			
Stomach	Epithelium, Glandular	Pigmentation	Minimal
Note: PIGMENT TGLs = 8-3			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 221

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 50,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870510

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone	Esophagus	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Parathyroid Gland	Pituitary Gland
Prostate	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Tissue NOS
Trachea	Urinary Bladder		

**MISSING**

Mammary Gland

**OBSERVATIONS**

Adrenal Gland	Cortex	Lymphoma Malignant Mixed	
	Medulla	Lymphoma Malignant Mixed	
Bone Marrow	Sternal	Lymphoma Malignant Mixed	
Brain		Infarct	Mild
	Thalamus	Lymphoma Malignant Mixed	
		Mineralization	Minimal
Note: LYMPH MAL MIXD TGLs = 16,17-4+4.1			
Note: INFARCT TGLs = 16,17-4+4.1			
Epididymis		Lymphoma Malignant Mixed	
Heart		Lymphoma Malignant Mixed	
Kidney		Lymphoma Malignant Mixed	
Liver		Hepatocellular Adenoma	
		Lymphoma Malignant Mixed	
		Necrosis	Minimal
Note: LYMPH MAL MIXD TGLs = 10,11,18-2+2.1			
Note: HEPATOCLR ADEN TGLs = 9-2.1			
Lung		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 4,5-1+1.1			
Lymph Node	Lumbar	Lymphoma Malignant Mixed	
	Mandibular	Lymphoma Malignant Mixed	
	Mediastinal	Lymphoma Malignant Mixed	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 221	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 50,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870510

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Mesenteric	Lymphoma Malignant Mixed
Renal	Lymphoma Malignant Mixed

Note: LYMPH MAL MIXD TGLs = 3-5  
Note: LYMPH MAL MIXD TGLs = 7-5  
Note: LYMPH MAL MIXD TGLs = 8-5  
Note: LYMPH MAL MIXD TGLs = 14,15-10  
[ Lymphoma Malignant Mixed TGLS = 12,13-10 ]

Nose	Lymphoma Malignant Mixed	
Pancreas	Lymphoma Malignant Mixed	
Preputial Gland	Dilatation	Mild
	Lymphoma Malignant Mixed	

Note: LYMPH MAL MIXD TGLs = 2-9  
Note: DILATATION TGLs = 2-9

Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Seminal Vesicle		Lymphoma Malignant Mixed	
Spleen		Lymphoma Malignant Mixed	

Note: LYMPH MAL MIXD TGLs = 6-3.1

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 222

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 50,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870511

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	Minimal
Note: HEPATOCLR ADEN TGLs = 4,5-2+2.1			
Mesentery		Fibrosis	Minimal
		Inflammation	Chronic Active, Minimal
Urinary Bladder		Calculus Micro Observation Only	
Note: CALCUS MIC OBS TGLs = 2-1			

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 223

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Liver		Fatty Change	Mild
		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 6-2			
Lung			
Note: MINOR HEMORRHAGES NOTED IN SECTION 1A ARE PROBABLY			
Note: RELATED TO HANDLING AT NECROPSY.			
Mesentery		Fibrosis	Mild
		Necrosis	Mild
[ Fibrosis TGLS = 3-9 ]			
[ Necrosis TGLS = 3-9 ]			
Skin		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 1-9 ]			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

<b>ANIMAL ID:</b> 224	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 455
	<b>DOSE:</b> 50,000 PPM MALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 853376

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Gallbladder	Heart	Intestine Large - Rectum	Intestine Small - Duodenum
Islets, Pancreatic	Lung	Nose	Pancreas
Pituitary Gland	Prostate	Skin	Spleen
Stomach - Forestomach	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**MISSING**

Mammary Gland	Parathyroid Gland
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**OBSERVATIONS**

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain	Thalamus	Mineralization	Minimal
Epididymis		Inflammation	Chronic, Minimal
Intestine Large	Cecum, Epithelium	Pigmentation	Mild
	Colon, Epithelium	Pigmentation	Minimal
Note: PIGMENT	TGLs = 4-6		
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
	Epithelium, Jejunum	Pigmentation	Mild
Note: PIGMENT	TGLs = 5-6		
Kidney		Inflammation	Chronic, Minimal
Note: MARGIN OF THE KIDNEY.			
Note: A NODULE OF WELL DIFFERENTIATED FAT WAS NOTED ON THE			
Liver		Fatty Change	Moderate
[ Fatty Change TGLS = 3-2 ]			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Epithelium, Glandular	Pigmentation	Minimal
[ Pigmentation TGLS = 6-3 ]			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 225	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 50,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870513

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Mild
Preputial Gland	Duct	Dilatation	Mild
		Inflammation	Chronic Active, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 226	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 50,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870514

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Pancreas	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

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**MISSING**

Mammary Gland	Parathyroid Gland
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**OBSERVATIONS**

Adrenal Gland	Cortex	Adenoma	
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
[ Eosinophilic Focus TGLS = 2,3,4-2+2.1 ]			
[ Hepatocellular Carcinoma TGLS = 5-2.2 ]			
Pituitary Gland	Pars Distalis	Cyst	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Forestomach	Acanthosis	Minimal
	Forestomach	Hyperkeratosis	Minimal
	Forestomach	Inflammation	Chronic Active, Minimal

Note: ACANTHOSIS TGLs = 6-3.1

[ Acanthosis TGLS = 6-3.1 ]

[ Hyperkeratosis TGLS = 6-3.1 ]

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 227	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 50,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870515

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Trachea
Urinary Bladder			

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**MISSING**

Mammary Gland	Parathyroid Gland
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
Lung	Alveolar Epith	Hyperplasia	Mild
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 228

TRT#: 4

SEX: Male

DAY ON TEST: 455

DOSE: 50,000 PPM MALE

DISP: Interval Sacrifice

HISTO: 853377

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Lung
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Gallbladder	Mammary Gland
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OBSERVATIONS

Epididymis		Inflammation	Chronic, Minimal
Intestine Large	Cecum, Epithelium	Pigmentation	Minimal
	Colon, Epithelium	Pigmentation	Minimal
Intestine Small	Epithelium, Jejunum	Pigmentation	Mild
Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Mineralization	Minimal
Liver		Fatty Change	Moderate
[ Fatty Change TGLS = 1-2 ]			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Preputial Gland		Cyst	Multiple, Moderate
Note: CYST	TGLs = 4-9		

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 229

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
Note: HEPATOCLR ADEN TGLs = 7-2.1 [ Hepatocellular Adenoma TGLS = 5-2.1 ] [ Hepatocellular Carcinoma TGLS = 6-2 ]			
Mesentery		Fibrosis	Mild
		Hemorrhage	Mild
		Necrosis	Mild
Note: HEMORRHAGE TGLs = 4-10 Note: HEMORRHAGE IN THE SUBLUMBAR RETROPERITONEAL AREA Note: WHICH HAS BEEN SEEN BEFORE. Note: THE DIAGNOSIS LOGGED UNDER TISSUE NOS WAS ACTUALLY Note: FIBROSIS TGLs = 3-10 [ Fibrosis TGLS = 3-10 ]			
Preputial Gland	Duct	Dilatation	Minimal
		Inflammation	Chronic Active, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:54

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 229

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 50,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870516

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Salivary Glands

Submandibul GI

Inflammation

Chronic, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 230

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 50,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870517

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mesenteric  
Pituitary Gland  
Skin  
Testes

Bone  
Heart  
Intestine Small - Duodenum  
Kidney  
Nose  
Prostate  
Spleen  
Thyroid Gland

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Trachea

**MISSING**

Mammary Gland

Thymus

**OBSERVATIONS**

Brain  
Epididymis  
Note: INFLAMMATION TGLs = 3-4.1  
Preputial Gland

Thalamus  
Thalamus  
Duct

Mineralization  
Mineralization  
Inflammation  
Dilatation  
Inflammation

Minimal  
Minimal  
Chronic Active, Mild  
Mild  
Chronic Active, Minimal

[ Dilatation TGLS = 2-9 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 231

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 50,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870518

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 2-2.1			
Nose		Inflammation	Acute, Minimal
Pancreas		Cytoplasmic Alteration	Minimal
Preputial Gland		Inflammation	Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 232

TRT#: 4

SEX: Male

DAY ON TEST: 627

DOSE: 50,000 PPM MALE

DISP: Dead

HISTO: 870519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach - Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland	Thymus
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Gallbladder		Autolysis	Marked
Kidney		Inflammation	Chronic, Minimal
Liver		Autolysis	Mild
		Fatty Change	Moderate
		Hemangiosarcoma	
		Hepatocellular Adenoma	Multiple
Note: HEMANGIOSARC	TGLs = 8,9-2.1		
Note: FATTY CHANGE	TGLs = 5-2+2.1		
Note: HEPATOCLR ADEN	TGLs = 6,7,11-2+2.1		
Pancreas		Cytoplasmic Alteration	Mild
Preputial Gland		Inflammation	Chronic Active, Minimal
Note: INFLAMMATION	TGLs = 12-9		
Spleen		Hemangiosarcoma	
Note: HEMANGIOSARC	TGLs = 14-3		
Stomach	Forestomach	Hyperplasia	Basal Cell, Minimal
	Forestomach	Inflammation	Chronic Active, Minimal
Note: HYPERPLASIA	TGLs = 13-3.1		
Note: INFLAMMATION	TGLs = 13-3.1		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:54

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 232

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 627

**DOSE:** 50,000 PPM MALE

**DISP:** Dead

**HISTO:** 870519

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 233

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 50,000 PPM MALE

**DISP:** Interval Sacrifice

**HISTO:** 853378

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Lung
Nose	Parathyroid Gland	Pituitary Gland	Prostate
Skin	Spleen	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Epididymis		Inflammation	Chronic, Minimal
Gallbladder		Inflammation	Chronic, Minimal
Intestine Large	Colon, Epithelium	Pigmentation	Minimal
Note: PIGMENT	TGLs = 1-6		
Intestine Small	Epithelium, Jejunum	Pigmentation	Minimal
Note: PIGMENT	TGLs = 2-6		
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Marked
[ Fatty Change TGLS = 3-2 ]			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Pancreas		Inflammation	Chronic, Minimal
Preputial Gland		Cyst	Multiple, Mild
Note: CYST	TGLs = 6-9		
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperkeratosis	Minimal
	Forestomach	Inflammation	Acute, Minimal
	Epithelium, Glandular	Pigmentation	Minimal
Note: PIGMENT	TGLs = 5-3		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:54

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 233

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 50,000 PPM MALE

**DISP:** Interval Sacrifice

**HISTO:** 853378

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Acanthosis TGLS = 4-3 ]

[ Inflammation TGLS = 4-3 ]

[ Pigmentation TGLS = 4-3 ]

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 234

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 50,000 PPM MALE

**DISP:** Terminal Sacrifice

**HISTO:** 870520

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Basophilic Focus	Minimal
		Hepatoblastoma	
Note: [ HEPATOBLASTOMA ] TGLs = 4-2.1			
Preputial Gland		Inflammation	Chronic Active, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 235	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 50,000 PPM MALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870521

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 236

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870522

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Cyst	Minimal
		Inflammation	Chronic, Minimal
Liver		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 3,4-2.1 ]		
Lung		Alveolar/Bronchiolar Carcinoma	
	Note: ALV BRON CARC TGLs = 5-1.1		
Nose		Inflammation	Acute, Minimal
Preputial Gland	Duct	Dilatation	Mild
	[ Dilatation TGLS = 2-9 ]		
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 237

TRT#: 4

SEX: Male

DAY ON TEST: 457

DOSE: 50,000 PPM MALE

DISP: Interval Sacrifice

HISTO: 853379

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Nose	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Intestine Large	Cecum, Epithelium	Pigmentation	Minimal
Note: PIGMENT TGLs = 5-6			
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Note: PIGMENT TGLs = 4-6			
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Moderate
[ Fatty Change TGLS = 2-2 ]			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
Pancreas	Duct	Concretion	Mild
	Duct	Dilatation	Mild
		Inflammation	Chronic, Minimal
Note: IAL, PROBABLY INSPISSATED SECRETION.			
Note: WITHIN THE DILATED DUCT WAS A PINK PROTEINACEOUS MATER-			
Prostate		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 238

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland	Spleen
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 2,3,5-2+2.1			
Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Histiocyte, Mild
[ Alveolar/Bronchiolar Adenoma TGLS = 4-1.1 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 239

TRT#: 4

SEX: Male

DAY ON TEST: 457

DOSE: 50,000 PPM MALE

DISP: Interval Sacrifice

HISTO: 853380

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Lung  
Pituitary Gland  
Spleen  
Thymus

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Nose  
Prostate  
Stomach - Forestomach  
Thyroid Gland

Bone  
Heart  
Intestine Small - Duodenum  
Pancreas  
Salivary Glands  
Stomach - Glandular  
Trachea

Bone Marrow  
Intestine Large - Cecum  
Islets, Pancreatic  
Parathyroid Gland  
Skin  
Testes

**MISSING**

Mammary Gland

**INSUFFICIENT TISSUE**

Lymph Node - Mesenteric

**OBSERVATIONS**

Brain  
Epididymis  
Intestine Small  
  
Note: PIGMENT TGLs = 6-6  
Kidney  
Liver  
Preputial Gland  
  
Note: CYST TGLs = 2-9  
Urinary Bladder

Thalamus  
  
Epithelium, Ileum  
Epithelium, Jejunum

Mineralization  
Inflammation  
Pigmentation  
Pigmentation  
  
Inflammation  
Fatty Change  
Cyst  
Inflammation  
  
Inflammation

Minimal  
Chronic, Minimal  
Minimal  
Minimal  
  
Chronic, Minimal  
Mild  
Multiple, Moderate  
Chronic, Minimal  
  
Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 240

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 50,000 PPM MALE

DISP: Terminal Sacrifice

HISTO: 870524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Carcinoma	Multiple
Note: HEPATOCLR CARC TGLs = 2,3,4-2.1 [ Eosinophilic Focus TGLS = 5-2 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 256

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 PPM FEMALE

**DISP:** Terminal Sacrifice

**HISTO:**

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
		Mixed Cell Focus	Minimal
Note: LIVER NODULE DESCRIBED AT GROSS NECROPSY WAS TAKEN			
Note: BY DR. MARONPOT FOR ONCOGENE STUDY.			
Note: HEPATOCLR ADEN TGLs = 1-2.1			
Salivary Glands	Sublingual GI	Inflammation	Chronic, Minimal
	Submandibular GI	Inflammation	Chronic, Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Urin Bladder			
Note: SMALL NUMBERS OF MONONUCLEAR CELLS IN PERIVASCULAR			
Note: SIDERED TO BE NORMAL.			
Note: LOCATIONS IN THE SUBMUCOSA OF THE BLADDER ARE CON-			
Uterus	Endometrium	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 2-4			

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 257

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 453

**DOSE:** 0 PPM FEMALE

**DISP:** Interval Sacrifice

**HISTO:** 853381

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Nose	Glands	Inflammation	Acute, Minimal
Ovary		Cyst	Mild
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Urinary Bladder		Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 258

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Heart		Inflammation	Chronic Active, Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
Note: FOR THE ONCOGENE STUDY.			
Note: THE LIVER MASS WAS TAKEN AT NECROPSY BY DR. MARONPOT			
Note: HEPATOCLR CARC TGLs = 3-2.1			
Ovary		Cyst	Mild
Note: SMALL NUMBERS OF MONONUCLEAR CELLS IN THE PERIOVARIAN			
Note: TISSUES ARE CONSIDERED TO BE NORMAL.			
[ Cyst TGLs = 1-4 ]			
Pancreas			
Note: STITIUUM OF THE PANCREAS ARE CONSIDERED TO BE NORMAL.			
Note: SMALL NUMBERS OF MONONUCLEAR CELLS WITHIN THE INTER-			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thymus			
Note: SMALL CYSTS WITHIN THE PARENCHYMA OF THE THYMUS ARE			
Note: CONSIDERED TO BE NORMAL.			
Uterus	Endometrium	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 258

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 PPM FEMALE

**DISP:** Terminal Sacrifice

**HISTO:** 870526

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HYPERPLASIA TGLs = 4-4

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 259	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 522
	<b>DOSE:</b> 0 PPM FEMALE	<b>DISP:</b> Dead	<b>HISTO:</b> 870527

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Heart	Islets, Pancreatic	Liver	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea

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**MISSING**

Esophagus	Gallbladder	Thymus
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Intestine Large	Cecum	Autolysis	Marked
	Colon	Autolysis	Marked
	Rectum	Autolysis	Mild
Intestine Small	Duodenum	Autolysis	Marked
	Ileum	Autolysis	Marked
	Jejunum	Autolysis	Marked
Kidney		Autolysis	Moderate
		Inflammation	Chronic, Minimal
Ovary			
Note: TO BE WITHIN NORMAL LIMITS.			
Note: THE PIGMENT SEEN WITHIN THE OVARIAN STROMA IS CONSIDERED			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Hemangiosarcoma	
Note: SIVE THROMBOSIS, HEMORRHAGE, AND AUTOLYSIS.			
Note: HEMANGIOSARC TGLs = 8-3.1			
Note: THE MASS DIAGNOSED AS A HEMANGIOSARCOMA SHOWED EXTEN-			
Urinary Bladder		Autolysis	Moderate
Uterus		Hydrometra	Mild
[ Hydrometra TGLS = 2-4 ]			

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:54

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 259

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 522

**DOSE:** 0 PPM FEMALE

**DISP:** Dead

**HISTO:** 870527

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: 84

Animal Note: THE HEMOPERITONEUM OBSERVED IN THIS ANIMAL IS RELATED

Animal Note: TO THE RUPTURE OF THE SPLENIC HEMANGIOSARCOMA.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 260

TRT#: 6

SEX: Female

DAY ON TEST: 450

DOSE: 0 PPM FEMALE

DISP: Interval Sacrifice

HISTO: 853382

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Mammary Gland	Parathyroid Gland	Pituitary Gland	Skin
Spleen	Thymus	Thyroid Gland	Trachea

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal

Note: NODE. THIS IS A VERY MINOR CHANGE ALMOST NOT WORTHY OF

Note: SEVERAL PIGMENT LADED HISTIOCYTES WERE OBSERVED IN THE

Note: NOTE EXCEPT THAT IT WAS ALSO SEEN IN THE TREATED GROUP.

Nose	Glands	Inflammation	Acute, Minimal
Ovary		Cyst	Moderate
		Hemorrhage	Moderate

Note: CYST TGLs = 1-4

Note: HEMORRHAGE TGLs = 1-4

Pancreas		Inflammation	Chronic, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Forestomach	Inflammation	Chronic Active, Minimal
	Glandular	Inflammation	Chronic, Minimal
Urinary Bladder		Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 261

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Gallbladder	Lymph Node - Mesenteric
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OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
<p>Note: THE NODULE DESCRIBED AT NECROPSY WAS TAKEN BY NTP FOR</p> <p>Note: THE LIVER CARCINOMA IS INTERPRETED AS A TRABECULAR</p> <p>Note: TYPE.</p> <p>Note: ONCOGENE STUDIES.</p> <p>Note: HEPATOCLR CARC TGLs = 2-2.1</p>			
Ovary		Cyst	Moderate
		[ Cyst TGLS = 1-4.1 ]	
Salivary Glands	Parotid GI	Inflammation	Chronic, Minimal
	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Hyperplasia	Lymphoid, Minimal
Uterus	Endometrium	Hyperplasia	Mild

Note: HYPERPLASIA TGLs = 3-4

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

<b>ANIMAL ID:</b> 262	<b>TRT#:</b> 6 <b>DOSE:</b> 0 PPM FEMALE	<b>SEX:</b> Female <b>DISP:</b> Moribund	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 870573
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node - Mesenteric	Mammary Gland
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Moderate
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Lung		Alveolar/Bronchiolar Carcinoma Infiltration Cellular	Histiocyte, Moderate
Note: ALV BRON CARC TGLs = 3-1			
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 4-1			
Nose		Inflammation	Acute, Minimal
Ovary		Cyst	Minimal
		Hemorrhage	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 263

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870529

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Lung  
Ovary  
Skin  
Thymus

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Thyroid Gland

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

**OBSERVATIONS**

Bone Marrow  
Brain  
Kidney  
Liver  
Lymph Node

Sternal  
Thalamus

Myelofibrosis  
Mineralization  
Inflammation  
Inflammation

Minimal  
Minimal  
Chronic, Minimal  
Chronic Active, Minimal

Note: IT IS NORMAL TO FIND SMALL NUMBERS OF HISTIOCYTES AND  
Note: PIGMENT IN THE MESENTERIC LYMPH NODES OF MICE.

Salivary Glands  
Uterus

Submandibul GI  
Endometrium

Inflammation  
Hyperplasia

Chronic, Mild  
Mild

Note: HYPERPLASIA TGLs = 1,2-4

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 264

TRT#: 6

SEX: Female

DAY ON TEST: 586

DOSE: 0 PPM FEMALE

DISP: Moribund

HISTO: 870530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Mammary Gland	Nose	Pituitary Gland
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea			

MISSING

Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Hematopoietic Cell Proliferation	Mild
Bone Marrow	Sternal	Myelofibrosis	Moderate
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Mild
Liver		Fibrosis	Mild
		Inflammation	Chronic Active, Moderate

Note: FIBROSIS TGLs = 6-2

Note: INFLAMMATION TGLs = 6-2

Lymph Node	Mediastinal	Fibrosis	Minimal
	Pancreatic	Fibrosis	Mild
	Mandibular	Hyperplasia	Lymphoid, Mild
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mesenteric	Hyperplasia	Lymphoid, Moderate
	Mandibular	Inflammation	Chronic Active, Minimal
	Mediastinal	Inflammation	Chronic Active, Minimal
	Pancreatic	Inflammation	Chronic Active, Mild

Note: FIBROSIS TGLs = 8-5

Note: FIBROSIS TGLs = 10-5

Note: INFLAMMATION TGLs = 8-5

[ Fibrosis TGLS = 9-5 ]

[ Hyperplasia TGLS = 11-5 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 264

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 586

**DOSE:** 0 PPM FEMALE

**DISP:** Moribund

**HISTO:** 870530

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Hyperplasia TGLS = 10-5 ]

[ Inflammation TGLS = 8-5 ]

Ovary

Cyst

Mild

Pancreas

Fibrosis

Marked

Inflammation

Chronic Active, Marked

Note: INFLAMMATION TGLs = 5-9

Note: FIBROSIS TGLs = 5-9

Note: WHAT THE PROSECTOR THOUGHT WAS MESENTERIC LYMPH NODES

Note: WAS THE PANCREAS.

Salivary Glands

Sublingual GI

Inflammation

Chronic, Minimal

Submandibular GI

Inflammation

Chronic, Minimal

Spleen

Fibrosis

Mild

Hematopoietic Cell Proliferation

Moderate

Note: FIBROSIS TGLs = 4,7-3+3.1

Note: HEMA CELL PROL TGLs = 4,7-3+3.1

Urinary Bladder

Angiectasis

Mild

Polyarteritis

Mild

Note: ANGIECTASIS TGLs = 3-1

Uterus

Endometrium

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 265

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870531

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM MAL TGLs = 2-7.1+7.2			
Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
Note: LIVER MASS WAS TAKEN BY NTP FOR ONCOGENE STUDIES.			
Note: HEPATOCLR CARC TGLs = 3-2.1			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Mild

[ Hyperplasia TGLS = 1-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 266

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0 PPM FEMALE

DISP: Dead

HISTO: 870532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Heart	Islets, Pancreatic	Lung
Mammary Gland	Nose	Ovary	Pancreas
Pituitary Gland	Skin	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	

MISSING

Parathyroid Gland

OBSERVATIONS

Brain	Meninges	Sarcoma	
Gallbladder		Autolysis	Moderate
Intestine Large	Cecum	Autolysis	Marked
	Colon	Autolysis	Moderate
	Rectum	Autolysis	Minimal
Intestine Small	Duodenum	Autolysis	Marked
	Ileum	Autolysis	Marked
	Jejunum	Autolysis	Marked
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Lymph Node	Mesenteric	Autolysis	Mild
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Glandular	Necrosis	Minimal
Urinary Bladder		Autolysis	Moderate
Uterus	Endometrium	Hyperplasia	Mild

Note: HYPERPLASIA TGLs = 2,6-4+4.1

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 267

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870533

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pituitary Gland	Skin
Spleen	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
Note: STUDIES.			
Note: THE LIVER MASS WAS TAKEN BY NTP FOR ONCOGENE			
Note: HEPATOCLR CARC TGLs = 1-2.1			
Pancreas	Acinus	Atrophy	Mild
		Inflammation	Chronic Active, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Mild
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperkeratosis	Mild
	Forestomach	Inflammation	Chronic Active, Mild
Note: HYPERKERATOSIS TGLs = 2-3.1			
Note: ACANTHOSIS TGLs = 2-3.1			
[ Acanthosis TGLS = 2-3.1 ]			
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 268

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 701

**DOSE:** 0 PPM FEMALE

**DISP:** Moribund

**HISTO:** 870534

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Mammary Gland	Thymus
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR CARC	TGLs = 3-2.1		
Note: HEPATOCLR ADEN	TGLs = 4-2		
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Ovary		Cyst	Minimal
Salivary Glands	Sublingual GI	Inflammation	Chronic, Minimal
	Submandibular GI	Inflammation	Chronic, Minimal
Spleen		Hematopoietic Cell Proliferation	Mild
Uterus	Endometrium	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 269

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 PPM FEMALE

**DISP:** Terminal Sacrifice

**HISTO:** 870535

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Heart		Inflammation	Chronic Active, Minimal
Intestine Small	Duodenum	Lymphoma Malignant Mixed	
Note: DUODENAL NODULE WAS TAKEN BY NTP FOR ONCOGENE STUDIES.			
Note: LYMPH MAL MIXD TGLs = 3-6.1			
Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Inflammation	Chronic Active, Minimal
Mesentery		Fibrosis	Mild
		Necrosis	Mild
[ Fibrosis TGLS = 1-9 ]			
[ Necrosis TGLS = 1-9 ]			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Spleen			
Note: SPLEEN WAS TAKEN BY NTP FOR ONCOGENE STUDIES.			
Uterus	Endometrium	Hyperplasia	Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 270

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870536

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Mammary Gland
Nose	Ovary	Pancreas	Pituitary Gland
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Intestine Small Note: ADENOCARC TGLs = 3-6.1	Duodenum	Adenocarcinoma	
Kidney		Inflammation	Chronic, Minimal
Lung Note: ALV BRON ADEN TGLs = 5-1		Alveolar/Bronchiolar Adenoma	
Lymph Node	Mesenteric	Fibrosis	Mild
	Mesenteric	Inflammation	Chronic Active, Mild
Salivary Glands	Parotid GI	Inflammation	Chronic, Minimal
	Sublingual GI	Inflammation	Chronic, Minimal
	Submandibular GI	Inflammation	Chronic, Minimal
Spleen Note: SPLEEN WAS TAKEN BY NTP FOR ONCOGENE STUDIES. Note: HEMA CELL PROL TGLs = 2-3.1		Hematopoietic Cell Proliferation	Moderate
Uterus [ Hyperplasia TGLS = 1-4 ]	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 271

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Ovary		Cyst	Mild
		Hemorrhage	Mild
Note: CYST TGLs = 1-4 [ Hemorrhage TGLS = 1-4 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL TGLs = 2-3.1 Note: THE SPLEEN WAS TAKEN BY NTP FOR ONCOGENE STUDIES.			
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 272

TRT#: 6

SEX: Female

DAY ON TEST: 703

DOSE: 0 PPM FEMALE

DISP: Moribund

HISTO: 870538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Heart		Inflammation	Chronic Active, Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR ADEN TGLs = 3-2			
Salivary Glands	Sublingual GI	Inflammation	Chronic, Minimal
	Submandibular GI	Inflammation	Chronic, Minimal
Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 1,2-4+4.1			
[ Hyperplasia TGLS = 1,2-4+4.1 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 273

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 PPM FEMALE

**DISP:** Terminal Sacrifice

**HISTO:** 870539

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Heart		Inflammation	Chronic Active, Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Mild
Note: ANGIECTASIS TGLs = 2-7			
Uterus	Endometrium	Hyperplasia	Marked
Note: HYPERPLASIA TGLs = 1-4+4.1			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 274

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870540

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Kidney  
Nose  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Ovary  
Skin  
Thymus

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Thyroid Gland

**OBSERVATIONS**

Bone Marrow  
Brain  
Liver  
Mesentery

Sternal  
Thalamus

Myelofibrosis  
Mineralization  
Clear Cell Focus  
Fibrosis  
Necrosis

Mild  
Minimal  
Mild  
Minimal  
Minimal

Note: NECROSIS TGLs = 1-9  
[ Necrosis TGLS = 1-9 ]

Salivary Glands  
Uterus

Submandibul GI  
Endometrium

Inflammation  
Hyperplasia

Chronic, Minimal  
Mild

Note: HYPERPLASIA TGLs = 2-4

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 275

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 450

**DOSE:** 0 PPM FEMALE

**DISP:** Interval Sacrifice

**HISTO:** 853383

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Mammary Gland	Ovary	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea			

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Lymph Node	Mesenteric	Depletion Lymphoid	Moderate
Nose	Glands	Inflammation	Acute, Minimal
Pancreas		Inflammation	Chronic, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Mild
Stomach	Glandular	Inflammation	Chronic Active, Minimal
Urinary Bladder		Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 276

TRT#: 6

SEX: Female

DAY ON TEST: 628

DOSE: 0 PPM FEMALE

DISP: Moribund

HISTO: 870541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Mild
Lymph Node	Bronchial	Lymphoma Malignant Mixed	
	Mandibular	Lymphoma Malignant Mixed	
	Mediastinal	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 5-2.1			
Note: LYMPH MAL MIXD TGLs = 7-1+2.1			
Note: LYMPH MAL MIXD TGLs = 6-5			
Note: LYMPH MAL MIXD TGLs = 3-5			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 2-3			
Thymus		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 4-5			
Uterus	Endometrium	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 1-4.1			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 277

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Skin	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Mesentery		Fibrosis	Mild
		Necrosis	Mild

Note: MESENTERIC FAT.

Note: NECROSIS TGLs = 1,2-6+5

Note: FIBROSIS TGLs = 1,2-6+5

Note: PANCREAS NODULE TURNED OUT TO BE PIECES OF INCARCERATED

Note: THE PIECES OF TISSUE DESIGNATED AS TISSUE NOS AND

Ovary

Cyst	Mild
Hemorrhage	Mild

Note: CYST TGLs = 6-4

Note: HEMORRHAGE TGLs = 6-4

Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Epithelium, Glandular	Hyperplasia	Mild

Note: GLANDS.

Note: APPEARED TO BE HYPERPLASIA AND DILATATION OF THE

Note: IN A FOCAL AREA OF THE GLANDULAR STOMACH THERE

Uterus	Endometrium	Hyperplasia	Moderate
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Note: HYPERPLASIA TGLs = 3,4-4.1

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 278

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 PPM FEMALE

**DISP:** Terminal Sacrifice

**HISTO:** 870543

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
Nose		Inflammation	Acute, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen			
Note: SPLEEN WAS TAKEN BY NTP FOR ONCOGENE STUDIES.			
Uterus	Endometrium	Hyperplasia	Mild
[ Hyperplasia TGLS = 1-4 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 279

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Gallbladder	Parathyroid Gland
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OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Heart		Inflammation	Chronic Active, Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
Note: [ HEPATOCLR ADEN ] TGLs = 1-2.1			
Note: THE LIVER MASS WAS TAKEN BY NTP (DR. MARONPOT) FOR			
Note: ONCOGENE STUDIES.			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 2-4+4.1			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 280

TRT#: 6

SEX: Female

DAY ON TEST: 450

DOSE: 0 PPM FEMALE

DISP: Interval Sacrifice

HISTO: 853384

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Ovary
Pancreas	Parathyroid Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**MISSING**

Mammary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Mild
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Nose	Glands	Inflammation	Acute, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Marked

Note: HYPERPLASIA TGLs = 1-4+4.1

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 281

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Esophagus

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lung

Lymph Node - Mesenteric

Nose

Ovary

Pancreas

Pituitary Gland

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

MISSING

Gallbladder

Mammary Gland

Parathyroid Gland

OBSERVATIONS

Bone Marrow

Sternal

Myelofibrosis

Mild

Brain

Thalamus

Mineralization

Minimal

Kidney

Inflammation

Chronic, Minimal

Liver

Hepatocellular Adenoma

Inflammation

Chronic Active, Minimal

Note: LIVER MASS WAS TAKEN BY NTP FOR ONCOGENE STUDIES.

Note: HEPATOCLR ADEN TGLs = 2-2.1

Salivary Glands

Submandibul GI

Inflammation

Chronic, Minimal

Uterus

Hydrometra

Marked

[ Hydrometra TGLs = 1-4.1+4.2 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 282

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 453

**DOSE:** 0 PPM FEMALE

**DISP:** Interval Sacrifice

**HISTO:** 853385

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Nose
Pancreas	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea			

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Intestine Small	Ileum, Peyers Patch	Hyperplasia	Moderate
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Acute, Minimal
		Necrosis	Coagulative, Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Moderate
Ovary		Cyst	Mild
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Urinary Bladder		Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Moderate
		Sarcoma Stromal	

Note: HYPERPLASIA TGLs = 1-4+4.1

Note: SARC STROMAL TGLs = 2-4.1

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 283

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Gallbladder	Parathyroid Gland
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OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
[ Angiectasis TGLS = 1-7 ]			
[ Hyperplasia TGLS = 1-7 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus		Angiectasis	Mild
	Endometrium	Hyperplasia	Mild
[ Hyperplasia TGLS = 2-4.1 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 284

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870547

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
Nose		Inflammation	Acute, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen			

Note: WITHIN NORMAL LIMITS AND PROBABLY REPRESENTS HEMOSIDERIN.

Note: THE SMALL AMT OF PIGMENT OBSERVED IN THE SPLEEN IS

Note: SPLEEN WAS TAKEN BY NTP FOR ONCOGENE STUDY.

Uterus	Endometrium	Hyperplasia	Mild
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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 285

TRT#: 6

DOSE: 0 PPM FEMALE

SEX: Female

DISP: Moribund

DAY ON TEST: 703

HISTO: 870548

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Lymphoma Malignant Mixed	
		Necrosis	Minimal
Note: LYMPH MAL MIXD TGLs = 10-2 [ Lymphoma Malignant Mixed TGLS = 10-2 ]			
Lung		Lymphoma Malignant Mixed	
Lymph Node	Renal	Angiectasis	Mild
	Lumbar	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
	Renal	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 5-5 Note: ANGIECTASIS TGLs = 8,9-10 Note: LYMPH MAL MIXD TGLs = 8,9-10 Note: LYMPH MAL MIXD TGLs = 6-9			
Mammary Gland		Hyperplasia	Minimal
Ovary		Cyst	Mild
Note: CYST TGLs = 3-4			
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 2-3.1			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:54

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 285	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 703
	<b>DOSE:</b> 0 PPM FEMALE	<b>DISP:</b> Moribund	<b>HISTO:</b> 870548

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Uterus	Endometrium	Hydrometra Hyperplasia	Mild Moderate
Note: HYPERPLASIA TGLs = 4-4			
Note: HYDROMETRA TGLs = 4-4			

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<b>PRIMARY CAUSE OF DEATH</b>	-
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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 286

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 PPM FEMALE

**DISP:** Terminal Sacrifice

**HISTO:** 870549

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Salivary Glands  
Trachea

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Liver  
Nose  
Skin  
Urinary Bladder

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Pancreas  
Stomach - Forestomach

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pituitary Gland  
Stomach - Glandular

**MISSING**

Parathyroid Gland

Spleen

**INSUFFICIENT TISSUE**

Thymus

**OBSERVATIONS**

Bone Marrow  
Brain  
Kidney  
Ovary  
Spleen

Sternal  
Thalamus

Myelofibrosis  
Mineralization  
Inflammation  
Cystadenoma

Mild  
Minimal  
Chronic, Minimal

Note: SPLEEN WAS TAKEN BY NTP FOR ONCOGENE STUDY.

Thyroid Gland  
Uterus

Follicular Cel  
Endometrium

Hyperplasia  
Hyperplasia

Minimal  
Mild

[ Hyperplasia TGLS = 1,4-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 287

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 450

**DOSE:** 0 PPM FEMALE

**DISP:** Interval Sacrifice

**HISTO:** 853386

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Mammary Gland
Nose	Ovary	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Pancreas		Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 288

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 PPM FEMALE

**DISP:** Terminal Sacrifice

**HISTO:** 870550

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Mild
Liver		Inflammation	Chronic Active, Minimal
Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 289

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node - Mesenteric	Mammary Gland
Pancreas	Pituitary Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 3-1			
Nose		Inflammation	Acute, Minimal
Ovary		Cyst	Moderate
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal
Note: HEMA CELL PROL TGLs = 2-3.1			
Note: SPLEEN WAS TAKEN BY NTP FOR ONCOGENE STUDY.			
Thyroid Gland	Follicular Cel	Adenoma	
Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 1-4			
[ Hyperplasia TGLS = 1-4 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 290

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870552

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Clitoral Gland		Pigmentation	Minimal
Note: WHAT APPEARED TO BE NORMAL MELANIN PIGMENT WAS NOTED			
Note: IN THE INTERSTITIUM OF THE CLITORAL GLAND.			
[ Pigmentation TGLS = 1-9 ]			
Kidney		Inflammation	Chronic, Minimal
Liver		Angiectasis	Mild
		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	Mild
Lung		Alveolar/Bronchiolar Adenoma	
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild
		Polyp Stromal	
Note: POLYP STROMAL TGLs = 2-4			
Note: HYPERPLASIA TGLs = 2-4			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 291

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870553

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Lung  
Nose  
Skin  
Thymus

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Lymph Node - Mesenteric  
Ovary  
Spleen  
Thyroid Gland

Bone  
Heart  
Intestine Small - Duodenum  
Mammary Gland  
Pancreas  
Stomach - Forestomach  
Trachea

Bone Marrow  
Intestine Large - Cecum  
Islets, Pancreatic  
Mesentery  
Parathyroid Gland  
Stomach - Glandular  
Urinary Bladder

**OBSERVATIONS**

Brain  
Intestine Small

Thalamus  
Ileum  
Jejunum

Mineralization  
Hyperplasia  
Hyperplasia

Minimal  
Lymphoid, Mild  
Lymphoid, Mild

Note: HYPERPLASIA TGLs = 5-6  
Note: HYPERPLASIA TGLs = 4-6

Kidney  
Liver

Inflammation  
Hepatocellular Adenoma

Chronic, Minimal

Note: HEPATOCLR ADEN TGLs = 2-2.1  
Note: LIVER MASS WAS TAKEN BY NTP FOR ONCOGENE STUDIES.

Mesentery

Note: THE PIECE OF MESENTERY TAKEN SHOWED ESSENTIALLY NO  
Note: ABNORMALITIES.

Pituitary Gland  
Salivary Glands  
Uterus

Pars Distalis  
Submandibul GI  
Endometrium

Hyperplasia  
Inflammation  
Hyperplasia

Minimal  
Chronic, Minimal  
Mild

Note: HYPERPLASIA TGLs = 3-4

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 292

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870554

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Skin  
Thymus

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Spleen  
Thyroid Gland

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Pancreas  
Stomach - Forestomach  
Trachea

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Parathyroid Gland  
Stomach - Glandular  
Urinary Bladder

**MISSING**

Pituitary Gland

**OBSERVATIONS**

Bone Marrow  
Kidney  
Liver  
Ovary  
[ Cyst TGLS = 1-4 ]  
[ Hemorrhage TGLS = 1-4 ]  
Salivary Glands  
Uterus  
[ Hyperplasia TGLS = 2,3-4 ]

Sternal  
  
  
  
  
Submandibul GI  
Endometrium

Myelofibrosis  
Inflammation  
Inflammation  
Cyst  
Hemorrhage  
  
Inflammation  
Hyperplasia

Mild  
Chronic, Minimal  
Chronic Active, Minimal  
Minimal  
Minimal  
  
Chronic, Minimal  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 293

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Mesentery		Fibrosis	Mild
		Necrosis	Moderate
Note: NECROSIS TGLs = 4-5.1			
Note: FIBROSIS TGLs = 4-5.1			
Ovary	Periovarn Tiss	Necrosis	Marked
Note: MULTINUCLEATE HISTIOCYTIC GIANT CELLS.			
Note: SHOWED MINERALIZATION AND CHRONIC INFLAMMATION WITH			
Note: THE AREA OF NECROSIS IN THE PERIOVARIAN TISSUES			
[ Necrosis TGLS = 1,2-4 ]			
Salivary Glands	Submandibul Gl	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Minimal
Note: HYPERPLASIA TGLs = 3-4			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 294	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 0 PPM FEMALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870556

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

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**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Nose		Inflammation	Acute, Minimal
Ovary		Cyst	Minimal
		Hemorrhage	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild
[ Hyperplasia TGLS = 1-4 ]			

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 295

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Tissue NOS	Trachea	Urinary Bladder	

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 5-2			
Nose		Inflammation	Acute, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Minimal
Note: ANGIECTASIS TGLs = 6-7			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal
Note: THE SPLEEN WAS TAKEN BY NTP FOR ONCOGENE STUDIES.			
Note: HEMA CELL PROL TGLs = 3-3.1			
Uterus		Hydrometra	Marked
	Endometrium	Hyperplasia	Mild
[ Hydrometra TGLs = 1,2-4 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 296

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 PPM FEMALE

**DISP:** Terminal Sacrifice

**HISTO:** 870558

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Lung  
Ovary  
Skin  
Thymus

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Thyroid Gland

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Pituitary Gland  
Stomach - Forestomach  
Trachea

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Mesentery		Fibrosis	Minimal
		Necrosis	Minimal

Note: NECROSIS TGLs = 2-5.1

[ Necrosis TGLS = 2-5.1 ]

Uterus	Endometrium	Hyperplasia	Mild
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[ Hyperplasia TGLS = 1-4 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

<b>ANIMAL ID:</b> 297	<b>TRT#:</b> 6 <b>DOSE:</b> 0 PPM FEMALE	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 732 <b>HISTO:</b> 870559
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic
Liver	Lung	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**INSUFFICIENT TISSUE**

Pituitary Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Heart		Inflammation	Chronic Active, Minimal
Intestine Small	Jejunum	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 2-6.1			
Note: JEJUNAL MASS WAS TAKEN BY NTP FOR ONCOGENE STUDIES.			
Kidney		Inflammation	Chronic, Minimal
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
Note: MESENTERIC LYMPH NODE MASS WAS TAKEN BY NTP FOR			
Note: ONCOGENE STUDIES.			
Note: LYMPH MAL MIXD TGLs = 3-5.1+5.2			
Ovary		Cyst	Moderate
[ Cyst TGLS = 1-4.1 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 4-3.1			
Note: ENLARGED SPLEEN WAS TAKEN BY NTP FOR ONCOGENE STUDIES.			
Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 298

TRT#: 6

SEX: Female

DAY ON TEST: 681

DOSE: 0 PPM FEMALE

DISP: Moribund

HISTO: 870560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal GI

Note: CONSTITUTE A LESION. CONGESTION WAS ALSO OBSERVED

Note: MINOR CONGESTION NOTED IN THE ADRENAL DOES NOT

Note: IN OTHER ORGANS INCLUDING THE BOWEL.

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	
	Oval Cell	Hyperplasia	Mild
	Note: HEPATOCLR CARC TGLs = 9-2+2.1		
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Ovary		Granulosa Cell Tumor Benign	
	Note: GRANLSA TM BGN TGLs = 3-4.1		
Salivary Glands	Sublingual GI	Inflammation	Chronic, Minimal
	Submandibular GI	Inflammation	Chronic, Mild
Uterus		Angiectasis	Minimal
	Endometrium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 299

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 PPM FEMALE

**DISP:** Terminal Sacrifice

**HISTO:** 870561

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Pituitary Gland	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Kidney		Inflammation	Chronic, Minimal
Mesentery		Fibrosis	Minimal
Note: FIBROSIS TGLs = 4-9			
Ovary		Cyst	Mild
		Hemorrhage	Mild
[ Cyst TGLS = 1-4 ]			
[ Hemorrhage TGLS = 1-4 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen			
Note: THE SPLEEN WAS TAKEN BY NTP FOR ONCOGENE STUDY.			
Uterus	Endometrium	Hyperplasia	Mild
[ Hyperplasia TGLS = 2-4 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 300	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 450
	<b>DOSE:</b> 0 PPM FEMALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 853387

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	

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**INSUFFICIENT TISSUE**

Thymus

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**OBSERVATIONS**

Kidney		Inflammation	Chronic, Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Ovary		Cyst	Multiple, Mild
Pancreas		Inflammation	Chronic, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Mild
Urinary Bladder		Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Marked

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Note: HYPERPLASIA TGLs = 1-4+4.1

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 301	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 450
	<b>DOSE:</b> 0 PPM FEMALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 853388

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Mammary Gland	Ovary
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea		

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**MISSING**

Intestine Large - Cecum	Parathyroid Gland
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Gallbladder		Inflammation	Chronic, Minimal
Kidney		Inflammation	Chronic, Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Nose	Glands	Inflammation	Acute, Minimal
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Hyperplasia	Lymphoid, Minimal
Urinary Bladder		Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Marked

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 302

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 PPM FEMALE

**DISP:** Terminal Sacrifice

**HISTO:** 870562

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Lung		Lymphoma Malignant Mixed	
Lymph Node	Mediastinal	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
	Pancreatic	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 7-5			
Note: LYMPH MAL MIXD TGLs = 5-5			
[ Lymphoma Malignant Mixed TGLS = 3-5.1 ]			
Ovary		Cyst	Minimal
		Hemorrhage	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 6-7			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Lymphoma Malignant Mixed	
Note: SPLEEN MASS WAS TAKEN BY NTP FOR ONCOGENE STUDY.			
Note: LYMPH MAL MIXD TGLs = 1-3.1			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus		Angiectasis	Moderate
	Endometrium	Hyperplasia	Mild
		Thrombosis	Marked

Note: THE VASCULAR CHANGE IN THE UTERUS COULD BE INTERPRETED

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:54

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 302

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0 PPM FEMALE

**DISP:** Terminal Sacrifice

**HISTO:** 870562

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: THROMBUS TGLs = 2-4.1

Note: UTERINE MASS WAS TAKEN BY NTP FOR ONCOGENE STUDY.

Note: ANGIECTASIS TGLs = 2-4.1

Note: AS A VASCULAR TUMOR.

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 303

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870563

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Liver  
Ovary  
Skin  
Thymus

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Lung  
Pancreas  
Spleen  
Thyroid Gland

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Esophagus  
Intestine Large - Colon  
Islets, Pancreatic  
Mammary Gland  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

**OBSERVATIONS**

Bone Marrow  
Brain  
Intestine Small  
    [ Hyperplasia TGLS = 1-6 ]  
Kidney  
Nose  
Salivary Glands  
Uterus  
    Note: HYPERPLASIA TGLs = 2-4

Sternal  
Thalamus  
Jejunum  
  
Submandibul GI  
Endometrium

Myelofibrosis  
Mineralization  
Hyperplasia  
  
Inflammation  
Inflammation  
Inflammation  
Hyperplasia

Mild  
Minimal  
Lymphoid, Marked  
  
Chronic, Minimal  
Acute, Minimal  
Chronic, Minimal  
Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 304

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 515

**DOSE:** 0 PPM FEMALE

**DISP:** Dead

**HISTO:** 870564

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Eye	Gallbladder	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Heart		Inflammation	Chronic Active, Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hematopoietic Cell Proliferation	Mild
		Inflammation	Chronic Active, Mild
Lymph Node			
Note: THE MEDIASTINAL LYMPH NODE HAD A MODERATE ABSCESS			
Note: HOWEVER, THIS IS NOT A PROTOCOL REQUIRED TISSUE AND			
Note: LOGGED IN AS A LESION. THE ABSCESS PROBABLY AROSE			
Note: FROM HEMATOGENOUS SPREAD FROM THE OVARY.			
Note: IT WAS NOT OBSERVED BY THE PROSECTOR, SO IT WAS NOT			
Ovary		Abscess	Marked
		Cyst	Minimal
		Hemorrhage	Minimal
[ Abscess TGLS = 2-4.1 ]			
Pancreas	Acinus	Atrophy	Mild
Note: THERE WAS A DECREASE IN ZYMOGEN GRANULES IN MANY ACINI.			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL TGLs = 4-3			
Thyroid Gland		Inflammation	Chronic Active, Minimal
Uterus	Endometrium	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 304

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 515

**DOSE:** 0 PPM FEMALE

**DISP:** Dead

**HISTO:** 870564

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 305

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870565

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Pancreas	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Nose		Inflammation	Acute, Minimal
Ovary		Cyst	Minimal
[ Cyst TGLS = 1-4 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild
[ Hyperplasia TGLS = 2-4 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 306

TRT#: 6

DOSE: 0 PPM FEMALE

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 870566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Lung  
Parathyroid Gland  
Stomach - Glandular

Adrenal Gland - Medulla  
Heart  
Intestine Small - Ileum  
Mammary Gland  
Pituitary Gland  
Trachea

Bone  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Nose  
Skin  
Urinary Bladder

Esophagus  
Intestine Large - Colon  
Islets, Pancreatic  
Pancreas  
Stomach - Forestomach

OBSERVATIONS

Bone Marrow  
Brain  
Intestine Small  
    Note: POLYP ADENOMAT TGLs = 5-6.1  
Kidney  
Liver  
    Note: LYMPH MAL MIXD TGLs = 12-2  
Lymph Node

Sternal  
Thalamus  
Duodenum  
  
Axillary  
Bronchial  
Lumbar  
Mandibular  
Mediastinal  
Mesenteric  
Pancreatic  
Renal

Myelofibrosis  
Mineralization  
Polyp Adenomatous  
  
Inflammation  
Lymphoma Malignant Mixed  
  
Lymphoma Malignant Mixed  
Lymphoma Malignant Mixed  
Lymphoma Malignant Mixed  
Lymphoma Malignant Mixed  
Lymphoma Malignant Mixed  
Lymphoma Malignant Mixed  
Lymphoma Malignant Mixed  
Lymphoma Malignant Mixed

Minimal  
Minimal  
  
Chronic, Minimal

Note: LYMPH MAL MIXD TGLs = 7-12  
Note: SO FOR DIAGNOSIS IT WAS LOGGED IN AS THE LATTER.  
Note: LYMPH NODE TURNED OUT TO BE A PANCREATIC LYMPH NODE,  
Note: STUDIES. WHAT THE PROSECTOR THOUGHT WAS AN ILIAC  
Note: LYMPH MAL MIXD TGLs = 6-6.1  
Note: THE RENAL LYMPH NODE WAS TAKEN BY NTP FOR ONCOGENE  
Note: LYMPH MAL MIXD TGLs = 11-1  
Note: LYMPH MAL MIXD TGLs = 9-10

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 306	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0 PPM FEMALE	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870566

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: LYMPH MAL MIXD TGLs = 10-5

[ Lymphoma Malignant Mixed TGLS = 1-9 ]

[ Lymphoma Malignant Mixed TGLS = 8-5 ]

[ Lymphoma Malignant Mixed TGLS = 2-5 ]

Ovary

Cyst

Minimal

Hemorrhage

Minimal

Salivary Glands

Submandibul GI

Lymphoma Malignant Mixed

Spleen

Lymphoma Malignant Mixed

Note: LYMPH MAL MIXD TGLs = 3-3.1

Note: THE SPLEEN WAS TAKEN FOR ONCOGENE STUDIES BY NTP.

Thymus

Lymphoma Malignant Mixed

Thyroid Gland

Inflammation

Chronic Active, Minimal

Uterus

Hydrometra

Moderate

Note: HYDROMETRA TGLs = 4-4

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 307

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870567

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Pancreas  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Parathyroid Gland  
Stomach - Glandular  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Lymph Node - Mesenteric  
Pituitary Gland  
Thymus

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Mammary Gland  
Skin  
Thyroid Gland

**OBSERVATIONS**

Bone Marrow  
Kidney  
Liver  
Lung  
Nose  
Ovary

Sternal

Myelofibrosis  
Inflammation  
Inflammation  
Alveolar/Bronchiolar Adenoma  
Inflammation  
Cyst  
Hemorrhage  
Inflammation  
Hyperplasia

Mild  
Chronic, Minimal  
Chronic Active, Minimal  
Acute, Minimal  
Minimal  
Minimal  
Chronic, Minimal  
Lymphoid, Minimal

Salivary Glands  
Spleen

Submandibul GI

Note: HYPERPLASIA TGLs = 2-3.1

Note: THE SPLEEN WAS TAKEN BY NTP FOR ONCOGENE STUDIES.

Uterus

Endometrium

Hyperplasia

Mild

[ Hyperplasia TGLS = 1-4.1 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 308

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	Minimal
Note: MIXED CL FOCUS TGLs = 3-2			
Ovary		Cyst	Mild
Salivary Glands	Sublingual GI	Inflammation	Chronic, Minimal
	Submandibular GI	Inflammation	Chronic, Minimal
Spleen		Lymphoma Malignant Mixed	
Note: SPLEEN WAS TAKEN BY NTP FOR ONCOGENE STUDIES.			
Note: CHANGES IN THE SPLEEN LOOK LIKE AN EARLY LYMPHOMA.			
Note: LYMPH MAL MIXD TGLs = 2-3.1			
Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Mild
[ Hydrometra TGLS = 1-4 ]			
[ Hyperplasia TGLS = 1-4 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:54  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 309

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 450

**DOSE:** 0 PPM FEMALE

**DISP:** Interval Sacrifice

**HISTO:** 853389

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Liver
Lung	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Thymus	Trachea	

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Ovary		Cyst	Moderate
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Glandular	Inflammation	Chronic Active, Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
Urinary Bladder		Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:54

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 310

TRT#: 6

SEX: Female

DAY ON TEST: 673

DOSE: 0 PPM FEMALE

DISP: Moribund

HISTO: 870569

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Ovary		Cyst	Moderate
[ Cyst TGLS = 1,2-4.1 ]			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands	Parotid GI	Inflammation	Chronic, Mild
	Submandibul GI	Inflammation	Chronic, Minimal
Skeletal Muscle	Back	Adenocarcinoma	Metastatic (Uncertain Primary Site)
Note: METASTATIC ADENOCARCINOMA OF UNCERTAIN PRIMARY			
Note: ORIGIN.			
Note: THE MASS IN THE LUMBAR MUSCLES APPEARS TO BE A			
Note: ADENOCARC TGLs = 6-9			
Thyroid Gland		Inflammation	Chronic Active, Minimal
Uterus	Endometrium	Hyperplasia	Minimal
Note: HYPERPLASIA TGLs = 3-4+4.1			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 311

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 PPM FEMALE

**DISP:** Terminal Sacrifice

**HISTO:** 870570

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Pituitary Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
Lymph Node	Mandibular	Inflammation	Chronic Active, Minimal
	Mandibular	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 2-5			
Ovary		Cyst	Minimal
		Hemorrhage	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 1-5			
Thymus		Lymphoma Malignant Mixed	
Urinary Bladder		Autolysis	Marked
Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Turmeric, oleoresin (curcumin)  
CAS Number: 8024-37-1

Date Report Requested: 10/19/2014  
Time Report Requested: 11:23:55  
First Dose M/F: NA / NA  
Lab: TSI MASON

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ANIMAL ID: 312	TRT#: 6	SEX: Female	DAY ON TEST: 84
	DOSE: 0 PPM FEMALE	DISP: Accident	HISTO: 850238

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Heart	Kidney	Lung
Nose	Ovary	Salivary Glands	Skin
Thyroid Gland	Trachea	Urinary Bladder	

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**MISSING**

Lymph Node - Mesenteric	Parathyroid Gland	Pituitary Gland	Stomach - Forestomach
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**OBSERVATIONS**

Brain		Autolysis	Minimal
Gallbladder		Autolysis	Marked
Intestine Large	Cecum	Autolysis	Moderate
	Colon	Autolysis	Marked
	Rectum	Autolysis	Marked
Intestine Small	Duodenum	Autolysis	Moderate
	Ileum	Autolysis	Moderate
	Jejunum	Autolysis	Moderate
Islets, Pancreatic		Autolysis	Mild
Liver		Autolysis	Mild
Mammary Gland		Hyperplasia	Minimal
Pancreas		Autolysis	Mild
Spleen		Depletion Lymphoid	Marked
Stomach	Glandular	Autolysis	Moderate
Thymus		Depletion Lymphoid	Marked
		Inflammation	Chronic Active, Minimal
Uterus	Cervix	Inflammation	Acute, Mild

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**PRIMARY CAUSE OF DEATH**

-

Animal Note: ASSOCIATED WITH A MALFUNCTIONING WATER NOZZLE.

Animal Note: THIS ANIMAL APPARENTLY DIED FROM DEHYDRATION

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 313

TRT#: 6

SEX: Female

DAY ON TEST: 536

DOSE: 0 PPM FEMALE

DISP: Dead

HISTO: 870571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Gallbladder	Heart	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Kidney
Lung	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Esophagus	Pituitary Gland
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Intestine Large	Cecum	Autolysis	Mild
Intestine Small	Jejunum	Autolysis	Marked
Liver		Fatty Change	Minimal
		Hepatocellular Carcinoma	
		Necrosis	Minimal
<p>Note: IN SOME AREAS OTHER THAN THE LIVER TUMOR. THESE OTHER  Note: AREAS OF NECROSIS ARE WHAT THE DIAGNOSIS APPLIES TO.  Note: FOCI OF COAGULATIVE NECROSIS WERE NOTED IN THE LIVER  [ Hepatocellular Carcinoma TGLS = 1-2.1 ]</p>			
Lymph Node	Mesenteric	Angiectasis	Mild
Note: ANGIECTASIS TGLs = 2-5			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thymus		Autolysis	Mild
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 314	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 453
	<b>DOSE:</b> 0 PPM FEMALE	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 853390

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Mammary Gland	Ovary	Pancreas	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

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**MISSING**

Parathyroid Gland

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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Nose	Nasolacrim Dct	Inflammation	Acute, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 315

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM FEMALE

DISP: Terminal Sacrifice

HISTO: 870572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Mammary Gland	Nose	Ovary
Parathyroid Gland	Pituitary Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Moderate
Brain	Thalamus	Mineralization	Minimal
Intestine Large	Cecum	Lymphoma Malignant Mixed	
Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Inflammation	Chronic Active, Minimal
Lymph Node	Iliac	Lymphoma Malignant Mixed	
	Lumbar	Lymphoma Malignant Mixed	
	Mandibular	Lymphoma Malignant Mixed	
	Mediastinal	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 5-10			
Note: LYMPH MAL MIXD TGLs = 3-5.1			
Note: LYMPH MAL MIXD TGLs = 6-1			
[ Lymphoma Malignant Mixed TGLS = 7-5 ]			
[ Lymphoma Malignant Mixed TGLS = 4-9 ]			
Pancreas		Lymphoma Malignant Mixed	
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 2-3.1			
Note: THE SPLEEN WAS TAKEN BY NTP FOR ONCOGENE STUDY.			
Note: SPLEEN WAS TAKEN BY NTP FOR ONCOGENE STUDIES.			
Thymus		Lymphoma Malignant Mixed	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:55

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 315

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0 PPM FEMALE

**DISP:** Terminal Sacrifice

**HISTO:** 870572

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Uterus

Hydrometra

Marked

[ Hydrometra TGLS = 1-4 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 316

TRT#: 7

SEX: Female

DAY ON TEST: 737

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870863

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Islets, Pancreatic  
Pancreas  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Lung  
Parathyroid Gland  
Stomach - Glandular

Bone  
Heart  
Intestine Small - Duodenum  
Lymph Node - Mesenteric  
Pituitary Gland  
Thymus

Brain  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Mammary Gland  
Skin  
Thyroid Gland

**OBSERVATIONS**

Bone Marrow  
Intestine Small  
Kidney  
Liver

Sternal  
Ileum

Myelofibrosis  
Hyperplasia  
Inflammation  
Hepatocellular Carcinoma  
Inflammation

Minimal  
Lymphoid, Mild  
Chronic, Minimal  
Chronic Active, Mild

Note: THE LIVER TUMOR LOOKS LIKE A TRABECULAR CARCINOMA.

Note: HEPATOCLR CARC TGLs = 3-2.1

Nose  
Ovary

Inflammation  
Cyst

Acute, Minimal  
Moderate

[ Cyst TGLS = 1-4 ]

Salivary Glands  
Spleen  
Urinary Bladder  
Uterus

Submandibul GI  
Endometrium

Inflammation  
Hyperplasia  
Inflammation  
Hyperplasia

Chronic, Mild  
Lymphoid, Mild  
Chronic Active, Minimal  
Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 317

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 453

**DOSE:** 2,000 PPM FEM

**DISP:** Interval Sacrifice

**HISTO:** 853391

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum  
Intestine Small - Ileum

Intestine Large - Colon  
Intestine Small - Jejunum

Intestine Large - Rectum  
Stomach - Forestomach

Intestine Small - Duodenum  
Stomach - Glandular

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**MISSING**

Skin

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**OBSERVATIONS**

Liver

Inflammation

Chronic Active, Minimal

Necrosis

Minimal

Ovary

Cyst

Moderate

Note: CYST      TGLs = 2-4

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 318	<b>TRT#:</b> 7	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 281
	<b>DOSE:</b> 2,000 PPM FEM	<b>DISP:</b> Moribund	<b>HISTO:</b> 852081

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lung	Mammary Gland	Nose	Ovary
Pancreas	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

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**MISSING**

Lymph Node - Mesenteric	Parathyroid Gland	Thymus
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Intestine Large	Cecum	Inflammation	Chronic Active, Minimal
	Colon	Inflammation	Chronic Active, Mild
	Rectum	Inflammation	Chronic Active, Minimal
Note: INFLAMMATION TGLs = 4-6			
Note: INFLAMMATION TGLs = 4-6			
Liver		Necrosis	Minimal
Lymph Node	Mandibular	Pigmentation	Minimal
Spleen		Depletion Lymphoid	Mild

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 319

TRT#: 7

SEX: Female

DAY ON TEST: 737

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870864

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Heart		Inflammation	Chronic Active, Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Inflammation	Chronic Active, Minimal
Lung		Inflammation	Chronic Active, Minimal
Note: HOWEVER IT WAS NOT CLEAR CUT.			
Note: THE POSSIBILITY OF AN EARLY LYMPHOMA WAS CONSIDERED			
Mesentery		Fibrosis	Mild
		Inflammation	Chronic, Mild
		Necrosis	Minimal
Note: INFLAMMATION TGLs = 3-9			
Note: NECROSIS TGLs = 3-9			
Note: FIBROSIS TGLs = 3-9			
Ovary	Periovarn Tiss	Inflammation	Chronic, Mild
Note: ESTABLISHED.			
Note: LARGE NUMBERS OF MONONUCLEAR CELLS WERE NOTED IN THE			
Note: PERIOVARIAN FAT. LYMPHOMA COULD NOT BE CLEARLY			
Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Hyperplasia	Lymphoid, Minimal
Note: HYPERPLASIA TGLs = 2-3			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:55

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 319

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 2,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870864

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Thyroid Gland

Follicular Cel

Hyperplasia

Minimal

Uterus

Endometrium

Hyperplasia

Moderate

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 320

TRT#: 7

SEX: Female

DAY ON TEST: 737

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870865

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Esophagus

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Note: CELLS.			
Note: POLYMORPHONUCLEAR LEUKOCYTES SURROUNDING THE NECROTIC			
Note: SINGLE CELL NECROSIS WAS NOTED WITH MONONUCLEAR AND			
Mesentery		Fibrosis	Minimal
		Inflammation	Chronic, Minimal
		Necrosis	Minimal
		[ Fibrosis TGLS = 2-9 ]	
		[ Inflammation TGLS = 2-9 ]	
		[ Necrosis TGLS = 2-9 ]	
Nose		Inflammation	Acute, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 321

TRT#: 7

SEX: Female

DAY ON TEST: 737

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870866

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Clitoral Gland	Duct	Dilatation	Minimal
		Pigmentation	Minimal
[ Pigmentation TGLS = 2-6 ]			
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Ovary		Cyst	Mild
		Cystadenoma	
Note: THE HEMORRHAGE NOTED WITHIN A FOLLICLE IS CONSIDERED			
Note: TO BE A NORMAL PHYSIOLOGIC EVENT.			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 322

TRT#: 7

SEX: Female

DAY ON TEST: 737

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Lung  
Pancreas  
Stomach - Glandular

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Mammary Gland  
Parathyroid Gland  
Trachea

Bone  
Heart  
Intestine Small - Ileum  
Nose  
Skin  
Urinary Bladder

Brain  
Intestine Large - Cecum  
Islets, Pancreatic  
Ovary  
Stomach - Forestomach

OBSERVATIONS

Bone Marrow  
Intestine Small

Sternal  
Duodenum  
Jejunum

Myelofibrosis  
Lymphoma Malignant Mixed  
Lymphoma Malignant Mixed

Minimal

Note: LYMPH MAL MIXD TGLs = 6-6

Kidney  
Liver  
Lymph Node

Axillary  
Lumbar  
Mandibular  
Mediastinal  
Mesenteric  
Renal

Inflammation  
Inflammation  
Lymphoma Malignant Mixed  
Lymphoma Malignant Mixed  
Lymphoma Malignant Mixed  
Lymphoma Malignant Mixed  
Lymphoma Malignant Mixed  
Lymphoma Malignant Mixed

Chronic, Minimal  
Chronic, Minimal

Note: LYMPH MAL MIXD TGLs = 10-5  
Note: LYMPH MAL MIXD TGLs = 4-5.1  
Note: LYMPH MAL MIXD TGLs = 3-9  
Note: LYMPH MAL MIXD TGLs = 7-5  
Note: LYMPH MAL MIXD TGLs = 9-11

[ Lymphoma Malignant Mixed TGLS = 8-10 ]

Pituitary Gland  
Salivary Glands  
Spleen  
Thymus

Pars Distalis  
Submandibul GI

Hyperplasia  
Inflammation  
Lymphoma Malignant Mixed  
  
Lymphoma Malignant Mixed

Minimal  
Chronic, Minimal

Note: LYMPH MAL MIXD TGLs = 5-3

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 322	<b>TRT#:</b> 7 <b>DOSE:</b> 2,000 PPM FEM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 737 <b>HISTO:</b> 870867
<b>ORGAN AND ACCOUNTABLE SITE STATUS</b>			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Mild
<b>PRIMARY CAUSE OF DEATH</b>	-		

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 323

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 2,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870868

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Ovary  
Skin  
Thymus

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Thyroid Gland

**OBSERVATIONS**

Bone Marrow  
Kidney  
Liver

Sternal

Myelofibrosis  
Inflammation  
Hepatocellular Adenoma  
Inflammation

Mild  
Chronic, Minimal  
Multiple  
Chronic Active, Minimal

Note: HEPATOCLR ADEN TGLs = 2,3-2

Salivary Glands  
Uterus

Submandibul GI  
Endometrium

Inflammation  
Hyperplasia  
Metaplasia

Chronic, Mild  
Mild  
Osseous, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 324

TRT#: 7

SEX: Female

DAY ON TEST: 737

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Eye [ Inflammation TGLS = 2-9 ]	Cornea	Inflammation	Chronic Active, Minimal
Harderian Gland [ Adenoma TGLS = 3-9 ]		Adenoma	
Kidney		Inflammation	Chronic, Minimal
Liver  Note: HEPATOCLR ADEN TGLs = 7-2		Hepatocellular Adenoma Inflammation	Chronic Active, Minimal
Lymph Node Note: HYPERPLASIA TGLs = 5-5	Mandibular	Hyperplasia	Lymphoid, Moderate
Nose		Inflammation	Acute, Minimal
Ovary [ Cyst TGLS = 4-4.1 ]		Cyst	Mild
Spleen Note: HYPERPLASIA TGLs = 6-3		Hyperplasia	Lymphoid, Mild
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 325

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 2,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870869

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thyroid Gland		Inflammation	Chronic Active, Minimal
Uterus	Endometrium	Hyperplasia	Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 326	<b>TRT#:</b> 7	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 453
	<b>DOSE:</b> 2,000 PPM FEM	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860074

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Medulla	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Liver
Stomach - Forestomach	Stomach - Glandular		

---

**MISSING**

Clitoral Gland

---

**OBSERVATIONS**

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Pigmentation	Minimal

Note: CHANGE HAS BEEN SEEN IN THE ADRENALS OF CONTROL MICE.

Note: AN OCCASIONAL MACROPHAGE AT THE CORTICO-MEDULLARY

Note: JUNCTION WAS LADEN WITH A PALE YELLOW PIGMENT. THIS

[ Pigmentation TGLS = 5-7 ]

Uterus

[ Hydrometra TGLS = 2,3-4 ]

Hydrometra	Moderate
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 327

TRT#: 7

SEX: Female

DAY ON TEST: 599

DOSE: 2,000 PPM FEM

DISP: Moribund

HISTO: 870871

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Adrenal Gland - Medulla	Thymus
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OBSERVATIONS

Adrenal GI			
Note: THE ADVENTITIA SURROUNDING THE ADRENAL.			
Note: SHEETS OF METASTATIC STROMAL SARCOMA WERE NOTED IN			
Bone Marrow	Sternal	Histiocytic Sarcoma	Metastatic (Uncertain Primary Site)
Brain	Thalamus	Mineralization	Minimal
Gallbladder		Histiocytic Sarcoma	Metastatic (Uncertain Primary Site)
Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Histiocytic Sarcoma	Metastatic (Uncertain Primary Site)
Note: DEGEN TGLs = 7-3			
Liver		Histiocytic Sarcoma	Metastatic (Uncertain Primary Site)
Note: [ HISTIO SARC ] TGLs = 5,6-2			
Lung		Histiocytic Sarcoma	Metastatic (Uncertain Primary Site)
Lymph Node	Mediastinal	Histiocytic Sarcoma	Metastatic (Uncertain Primary Site)
	Mesenteric	Histiocytic Sarcoma	Metastatic (Uncertain Primary Site)
Nose		Histiocytic Sarcoma	Metastatic (Uncertain Primary Site)
Ovary		Histiocytic Sarcoma	Metastatic (Uncertain Primary Site)
Note: THE ARCHITECTURE OF THE OVARIES WAS COMPLETELY EFFACED			
Note: BY THE METASTATIC TUMOR.			
Salivary Glands	Submandibul GI	Atrophy	Mild
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL TGLs = 8-3			
Stomach	Forestomach	Hyperkeratosis	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 327	<b>TRT#:</b> 7	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 599
	<b>DOSE:</b> 2,000 PPM FEM	<b>DISP:</b> Moribund	<b>HISTO:</b> 870871

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Uterus		Histiocytic Sarcoma	
	Endometrium	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH	-		
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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 328

TRT#: 7

SEX: Female

DAY ON TEST: 736

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870872

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Bone Marrow	Myeloid Cell, Sternal Sternal	Hyperplasia Myelofibrosis	Mild Mild
Note: HYPERPLASIA TGLs = 4-4			
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Note: HEPATOCLR ADEN TGLs = 3-2.1			
Ovary		Cyst	Mild
Note: CYST TGLs = 4-4			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Glandular	Mineralization	Minimal
Uterus	Endometrium	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 5-4			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 329

TRT#: 7

SEX: Female

DAY ON TEST: 736

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870873

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Tissue NOS
Trachea	Urinary Bladder		

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Moderate
Brain	Thalamus	Mineralization	Minimal
Intestine Small	Ileum	Lymphoma Malignant Mixed	
	Jejunum	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 4-6			
Note: LYMPH MAL MIXD TGLs = 5-6.1			
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic, Minimal
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 6-1.1			
Nose		Inflammation	Acute, Minimal
Ovary		Cyst	Minimal
Note: CYST TGLs = 3-4			
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 330

TRT#: 7

SEX: Female

DAY ON TEST: 737

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870874

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Adrenal Gland - Medulla

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Kidney		Inflammation	Chronic, Minimal
		Metaplasia	Osseous, Minimal
Liver		Eosinophilic Focus	Minimal
		Inflammation	Chronic Active, Minimal
Ovary		Cystadenoma	
Note: CYSTADENOMA	TGLs = 3-4.1		
Pancreas		Cytoplasmic Alteration	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 2-4		

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 331

TRT#: 7

SEX: Female

DAY ON TEST: 733

DOSE: 2,000 PPM FEM

DISP: Moribund

HISTO: 870876

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Gallbladder	Heart	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic
Lung	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Adrenal Gland - Medulla	Ovary	Thymus
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OBSERVATIONS

Intestine Large	Cecum	Lymphoma Malignant Undifferentiated Cell Type	
Intestine Small	Jejunum	Lymphoma Malignant Undifferentiated Cell Type	
Note: LYMPH MAL UNDF TGLs = 7-6.1			
Kidney		Inflammation	Chronic, Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
Lymph Node	Mediastinal	Lymphoma Malignant Undifferentiated Cell Type	
	Mesenteric	Lymphoma Malignant Undifferentiated Cell Type	
Note: LYMPH MAL UNDF TGLs = 8-5.1			
[ Lymphoma Malignant Undifferentiated Cell Type TGLs = 9-2.1 ]			
Salivary Glands	Submandibul GI	Atrophy	Mild
	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Lymphoma Malignant Undifferentiated Cell Type	
Note: LYMPH MAL UNDF TGLs = 6-3			
Uterus	Endometrium	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE





Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 333

TRT#: 7

SEX: Female

DAY ON TEST: 737

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870877

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Adrenal Gland - Medulla

OBSERVATIONS

Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Note: NECROSIS TGLs = 6-2			
Note: INFLAMMATION TGLs = 7-2.1			
Lymph Node	Mesenteric	Hematopoietic Cell Proliferation	Minimal
Mammary Gland		Hemangiosarcoma	
Note: TURNED OUT TO BE A SMALL VASCULAR TUMOR. THERE			
Note: ONE IN THE MAMMARY TISSUE (SUBCUTIS) AND ONE IN THE			
Note: HEMANGIOSARC TGLs = 2-9			
Note: APPEAR TO BE 2 PRIMARY HEMANGIOSARCOMAS IN THIS ANIMAL			
Note: SPLEEN.			
Note: WHAT THE PROSECTOR THOUGHT WAS AN INGUINAL LYMPH NODE			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 8-7			
Spleen		Hemangiosarcoma	
Note: THE SPLENIC HEMANGIOSARCOMA.			
Note: HEMANGIOSARC TGLs = 4-3.1			
Note: THE HEMOPERITONEUM IS ASSOCIATED WITH RUPTURE OF			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 333

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 2,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870877

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Uterus

Endometrium

Hyperplasia

Mild

Note: HYPERPLASIA TGLs = 5-4

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 334

TRT#: 7

SEX: Female

DAY ON TEST: 736

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870878

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Mammary Gland	Parathyroid Gland	Pituitary Gland
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea		

MISSING

Adrenal Gland - Medulla

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Inflammation	Chronic, Moderate
Note: INFLAMMATION TGLs = 4-3.1			
Note: INFLAMMATION RATHER THAN NEOPLASIA.			
Note: HOWEVER, THE INFILTRATE SEEMS MORE PLEOMORPHIC SUGGESTING			
Note: AT FIRST I THOUGHT THERE WAS A LYMPHOMA IN THE KIDNEY			
Liver		Clear Cell Focus	Mild
		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Note: CLEAR CL FOCUS TGLs = 3-2			
Note: A RARE SINGLE CELL FOCUS OF NECROSIS WAS NOTED.			
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Nose		Inflammation	Acute, Minimal
Ovary		Cyst	Minimal
[ Cyst TGLS = 2-4 ]			
Pancreas		Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Moderate
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Lymphoma Malignant Mixed	
Note: THERE APPEARS TO BE AN EARLY LYMPHOMA IN THE SPLEEN.			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 334

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 2,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870878

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: LYMPH MAL MIXD TGLs = 5-3

Urinary Bladder

Lymphoma Malignant Mixed

Uterus

Endometrium

Hyperplasia

Moderate

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 335

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 450

**DOSE:** 2,000 PPM FEM

**DISP:** Interval Sacrifice

**HISTO:** 860075

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Stomach - Forestomach

Stomach - Glandular

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**OBSERVATIONS**

Clitoral Gland

Cyst

Multiple, Moderate

[ Cyst TGLS = 2-6 ]

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 336

TRT#: 7

SEX: Female

DAY ON TEST: 736

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870879

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

INSUFFICIENT TISSUE

Parathyroid Gland

OBSERVATIONS

Kidney	Inflammation	Chronic, Minimal
Liver	Inflammation	Chronic Active, Minimal
Mesentery	Fibrosis	Minimal
	Inflammation	Chronic, Minimal
	Necrosis	Minimal

Note: INFLAMMATION TGLs = 2-9

[ Fibrosis TGLS = 2-9 ]

[ Necrosis TGLS = 2-9 ]

Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 337

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 2,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870880

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Skin  
Thymus

Adrenal Gland - Medulla  
Gallbladder  
Intestine Small - Duodenum  
Lung  
Pancreas  
Spleen  
Thyroid Gland

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Bone Marrow  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

**MISSING**

Pituitary Gland

**OBSERVATIONS**

Brain Thalamus  
Heart  
Kidney  
Liver  
Note: LYMPH MAL MIXD TGLs = 3,4,5,6-2+2.1+2.2  
Ovary  
Uterus  
Note: HYDROMETRA TGLs = 2-4.1

Mineralization  
Inflammation  
Inflammation  
Lymphoma Malignant Mixed  
Cyst  
Hydrometra

Minimal  
Chronic Active, Minimal  
Chronic, Minimal  
Minimal  
Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 338

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 453

**DOSE:** 2,000 PPM FEM

**DISP:** Interval Sacrifice

**HISTO:** 860076

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Intestine Large - Cecum  
Intestine Small - Ileum

Intestine Large - Colon  
Intestine Small - Jejunum

Intestine Large - Rectum  
Stomach - Forestomach

Intestine Small - Duodenum  
Stomach - Glandular

**OBSERVATIONS**

Clitoral Gland

Cyst

Minimal

Inflammation

Acute, Minimal

Note: CYST TGLs = 3-6

Skin

Subcut Tiss

Inflammation

Acute, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 339

TRT#: 7

SEX: Female

DAY ON TEST: 736

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870881

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Liver  
Pancreas  
Spleen  
Thyroid Gland

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Lung  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Bone  
Heart  
Intestine Small - Duodenum  
Nose  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Brain  
Intestine Large - Cecum  
Islets, Pancreatic  
Ovary  
Skin  
Thymus

OBSERVATIONS

Bone Marrow  
Intestine Small

Sternal  
Ileum  
Jejunum

Myelofibrosis  
Lymphoma Malignant Mixed  
Lymphoma Malignant Mixed

Minimal

Note: LYMPH MAL MIXD TGLs = 5-6.1

Kidney  
Lymph Node

Mesenteric

Inflammation  
Lymphoma Malignant Mixed

Chronic, Minimal

Note: LYMPH MAL MIXD TGLs = 6-5.1

Mammary Gland

Adenocarcinoma

Note: ADENOCARC TGLs = 3-9

Salivary Glands  
Uterus

Submandibul GI  
Endometrium

Inflammation  
Hyperplasia

Chronic, Minimal  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 340

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 701

**DOSE:** 2,000 PPM FEM

**DISP:** Moribund

**HISTO:** 870882

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Lymph Node - Mesenteric

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Esophagus			
Note: ESOPHAGUS SECTION WAS SEEN WITH THE LUNG.			
Kidney		Inflammation	Chronic, Minimal
Ovary		Cyst	Moderate
[ Cyst TGLS = 2-4 ]			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 341	<b>TRT#:</b> 7	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 736
	<b>DOSE:</b> 2,000 PPM FEM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870883

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mesenteric	Mammary Gland	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

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**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Mild
Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
Note: REGENERATION TGLs = 4-3			
Nose		Inflammation	Acute, Minimal
Uterus	Endometrium	Hyperplasia	Mild
[ Hyperplasia TGLS = 2-4 ]			

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 342

TRT#: 7

SEX: Female

DAY ON TEST: 718

DOSE: 2,000 PPM FEM

DISP: Moribund

HISTO: 870884

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Parathyroid Gland	Pituitary Gland	Skin
Stomach - Forestomach	Thyroid Gland	Trachea	

OBSERVATIONS

Bone Marrow	Sternal	Lymphoma Malignant Mixed
Gallbladder		Lymphoma Malignant Mixed
Note: LYMPH MAL MIXD TGLs = 24-2.1		
Heart		Lymphoma Malignant Mixed
Kidney		Lymphoma Malignant Mixed
[ Lymphoma Malignant Mixed TGLS = 14,19-3 ]		
Liver		Lymphoma Malignant Mixed
Note: LYMPH MAL MIXD TGLs = 12-2.1		
Note: LYMPH MAL MIXD TGLs = 11,21,22-2		
Lung		Lymphoma Malignant Mixed
Lymph Node	Axillary	Lymphoma Malignant Mixed
	Bronchial	Lymphoma Malignant Mixed
	Lumbar	Lymphoma Malignant Mixed
	Mandibular	Lymphoma Malignant Mixed
	Mediastinal	Lymphoma Malignant Mixed
	Mesenteric	Lymphoma Malignant Mixed
	Renal	Lymphoma Malignant Mixed
Note: LYMPH MAL MIXD TGLs = 3-5		
Note: LYMPH MAL MIXD TGLs = 13-5.1		
Note: LYMPH MAL MIXD TGLs = 17,18-11+12		
Note: LYMPH MAL MIXD TGLs = 20-1		
Note: LYMPH MAL MIXD TGLs = 15,16-10+12		
Note: LYMPH MAL MIXD TGLs = 4,5-9+12		
[ Lymphoma Malignant Mixed TGLS = 6-5 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 342	<b>TRT#:</b> 7	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 718
	<b>DOSE:</b> 2,000 PPM FEM	<b>DISP:</b> Moribund	<b>HISTO:</b> 870884

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ORGAN AND ACCOUNTABLE SITE STATUS			
Nose		Lymphoma Malignant Mixed	
Ovary		Cyst	Mild
		Lymphoma Malignant Mixed	
Note: CYST	TGLs = 7-4		
Pancreas		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 9-5+5.1		
Salivary Glands	Submandibul GI	Lymphoma Malignant Mixed	
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 10-3.1		
Stomach	Glandular	Lymphoma Malignant Mixed	
Thymus		Lymphoma Malignant Mixed	
Note: ARCHITECTURE HAS BEEN EFFACED BY THE LYMPHOMA.			
Note: THE THYMUS COULD NOT BE RECOGNIZED BUT PRESUMABLY ITS			
Urinary Bladder		Lymphoma Malignant Mixed	
Uterus		Hydrometra	Mild
		Lymphoma Malignant Mixed	
Note: HYDROMETRA	TGLs = 8-4		

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PRIMARY CAUSE OF DEATH	-
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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 343	<b>TRT#:</b> 7	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 450
	<b>DOSE:</b> 2,000 PPM FEM	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860077

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Forestomach	

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**OBSERVATIONS**

Clitoral Gland		Cyst	Multiple, Mild
		Inflammation	Chronic Active, Minimal
[ Cyst TGLS = 1-6 ]			
Stomach	Glandular	Inflammation	Chronic, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 344

TRT#: 7

SEX: Female

DAY ON TEST: 737

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870885

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
		Metaplasia	Osseous, Minimal
Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Mesentery		Fibrosis	Minimal
		Inflammation	Chronic, Minimal
[ Fibrosis TGLS = 2-9 ]			
[ Inflammation TGLS = 2-9 ]			
Ovary		Cyst	Moderate
Note: CYST TGLs = 4,5-4			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus		Hydrometra	Marked
	Endometrium	Hyperplasia	Mild
[ Hydrometra TGLS = 3-4 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 345

TRT#: 7

SEX: Female

DAY ON TEST: 736

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870886

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Mammary Gland	Pancreas	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow	Sternal	Lymphoma Malignant Lymphocytic	
	Sternal	Myelofibrosis	Mild
Note: MARROW SUGGESTS A POSSIBLE LYMPHOMA.			
Note: THE PROMINENCE OF THE LYMPHOID TISSUE IN THE BONE			
Brain	Thalamus	Mineralization	Minimal
Heart		Inflammation	Chronic Active, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Inflammation	Chronic, Minimal
Liver		Lymphoma Malignant Lymphocytic	
Note: THE LYMPHOID INFILTRATES IN THE LIVER COULD REPRESENT			
Note: AN EARLY LYMPHOMA.			
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Minimal
Nose		Inflammation	Acute, Minimal
Ovary		Cyst	Marked
[ Cyst TGLS = 2-4 ]			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Lymphoma Malignant Lymphocytic	
Note: LYMPH MAL LYMP TGLs = 6-3			
Thyroid Gland	Follicular Cel	Adenoma	
		Cyst	Mild
Uterus		Hydrometra	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 345	<b>TRT#:</b> 7 <b>DOSE:</b> 2,000 PPM FEM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 736 <b>HISTO:</b> 870886
<b>ORGAN AND ACCOUNTABLE SITE STATUS</b>			
	Endometrium	Hyperplasia Infarct	Mild Moderate
Note: INFARCT TGLs = 3,4-4.1 [ Hyperplasia TGLS = 5-4 ]			
<b>PRIMARY CAUSE OF DEATH</b>	-		

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 346	<b>TRT#:</b> 7	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 450
	<b>DOSE:</b> 2,000 PPM FEM	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860078

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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<b>NORMAL</b>			
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Forestomach	Stomach - Glandular

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<b>PRIMARY CAUSE OF DEATH</b>	-
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Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 347

TRT#: 7

SEX: Female

DAY ON TEST: 736

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870887

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Spleen  
Urinary Bladder

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Lung  
Pancreas  
Stomach - Forestomach

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Parathyroid Gland  
Thymus

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Skin  
Trachea

OBSERVATIONS

Bone  
Note: CHORDOMA TGLs = 2-9  
Note: HAS A LIGHT BLUE MUCINOUS APPEARANCE SUGGESTING A  
Note: POSSIBLE CHORDOMA ARISING FROM REMNANTS OF THE NOTOCHORD.  
Note: THE MASS DOES NOT APPEAR TO BE A CLEAR CUT FIBROMA  
Note: OR  
Note: THIS IS AN UNUSUAL TUMOR ARISING ON THE TAIL. IT

Chordoma

Bone Marrow Sternal  
Kidney  
Liver  
Ovary

Myelofibrosis  
Inflammation  
Inflammation  
Cyst

Mild  
Chronic, Minimal  
Chronic Active, Minimal  
Mild

Note: PROVIDED. NO OVARIAN TISSUE WAS VISIBLE SUGGESTING  
Note: ONLY ONE OF THE OVARIAN CYSTS WAS PRESENT IN THE SECTION  
Note: CYST TGLs = 3,4-4.1  
Note: THE CYST IS A PERIOVARIAN CYST.

Pituitary Gland Pars Distalis  
Pars Distalis  
Salivary Glands Submandibul GI  
Stomach Glandular  
Thyroid Gland  
Uterus Endometrium

Angiectasis  
Hyperplasia  
Inflammation  
Mineralization  
Cyst  
Hyperplasia

Minimal  
Mild  
Chronic, Minimal  
Minimal  
Minimal  
Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 348

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 2,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870888

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Bone	Bone Marrow	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**MISSING**

Gallbladder

**INSUFFICIENT TISSUE**

Adrenal Gland - Medulla

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Nose		Inflammation	Acute, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild

[ Hyperplasia TGLS = 2-4 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 349

TRT#: 7

SEX: Female

DAY ON TEST: 736

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870889

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood	Bone
Brain	Esophagus	Eye	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Ovary

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Harderian Gland		Adenoma	
[ Adenoma TGLS = 7-9 ]			
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Moderate
		Polyp Stromal	
[ Hyperplasia TGLS = 3,4-4.1 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 350

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 2,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870890

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Kidney  
Ovary  
Skin  
Thymus

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Thyroid Gland

**OBSERVATIONS**

Bone Marrow  
Liver  
Lung  
    Note: ALV BRON ADEN   TGLs = 3-1  
Salivary Glands  
Uterus

Sternal  
  
  
Submandibul GI  
Endometrium

Myelofibrosis  
Inflammation  
Alveolar/Bronchiolar Adenoma  
  
Inflammation  
Hyperplasia

Mild  
Chronic Active, Minimal  
  
  
Chronic, Minimal  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 351

TRT#: 7

SEX: Female

DAY ON TEST: 552

DOSE: 2,000 PPM FEM

DISP: Moribund

HISTO: 870891

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

INSUFFICIENT TISSUE

Gallbladder

OBSERVATIONS

Adrenal Gland	Cortex	Lymphoma Malignant Mixed	
Brain	Thalamus	Mineralization	Minimal
Intestine Small	Duodenum	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 9-6			
Kidney		Lymphoma Malignant Mixed	
Liver		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 4-2			
Lymph Node	Mediastinal	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 7-2.1			
Note: LYMPH MAL MIXD TGLs = 3-5.1			
Ovary		Cyst	Moderate
Note: CYST TGLs = 10-4			
Pancreas		Lymphoma Malignant Mixed	
Salivary Glands	Submandibul GI	Lymphoma Malignant Mixed	
Spleen		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 1-3.1 ]			
Thymus		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 352

TRT#: 7

SEX: Female

DAY ON TEST: 736

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870892

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Bone	Brain	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Skin
Spleen	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Adrenal Gland	Medulla	Hyperplasia	Minimal
Bone Marrow	Sternal	Myelofibrosis	Mild
Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Mild
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Glandular	Mineralization	Minimal
Uterus	Endometrium	Hyperplasia	Mild

[ Hyperplasia TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 353

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 450

**DOSE:** 2,000 PPM FEM

**DISP:** Interval Sacrifice

**HISTO:** 860079

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Stomach - Forestomach

Uterus

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**OBSERVATIONS**

Mesentery

Fibrosis

Minimal

Inflammation

Chronic, Minimal

Necrosis

Coagulative, Moderate

[ Fibrosis TGLS = 2-6 ]

[ Inflammation TGLS = 2-6 ]

[ Necrosis TGLS = 2-6 ]

Stomach

Glandular

Inflammation

Chronic Active, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 354

TRT#: 7

SEX: Female

DAY ON TEST: 736

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870893

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Mammary Gland	Nose	Ovary	Pituitary Gland
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Note: HEPATOCLR ADEN TGLs = 6,7,8-2+2.1			
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 2-9 ]			
Pancreas		Cyst	Marked
[ Cyst TGLS = 2-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Lymphoma Malignant Mixed	
Note: IT.			
Note: THE SPLEEN MAY HAVE AN EARLY MIXED LYMPHOMA STARTING IN			
[ Lymphoma Malignant Mixed TGLS = 4-3 ]			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Mild
[ Hyperplasia TGLS = 3-4 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 355

TRT#: 7

SEX: Female

DAY ON TEST: 736

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870894

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Clitoral Gland		Pigmentation	Minimal
Note: CLITORAL GLAND APPEARS TO BE MELANIN AND IS CONSIDERED TO BE A NORMAL VARIATION.			
Note: PIGMENT TGLs = 2-9			
Note: THE PIGMENT OBSERVED IN THE INTERSTITIUM OF THE			
Kidney		Inflammation	Chronic, Minimal
Liver		Fatty Change	Minimal
		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Note: HEPATOCLR CARC TGLs = 5-2.1			
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 4-1			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Mild
Uterus	Endometrium	Hydrometra	Moderate
		Hyperplasia	Minimal
[ Hydrometra TGLs = 3-4 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:55

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 355

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 2,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870894

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 356

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 2,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:**

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Pituitary Gland	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Mild
Liver		Inflammation	Chronic Active, Minimal
Salivary Glands	Submandibul Gl	Inflammation	Chronic, Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Uterus	Endometrium	Hyperplasia	Moderate

[ Hyperplasia TGLS = 3-4 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 357

TRT#: 7

SEX: Female

DAY ON TEST: 737

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870896

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Pancreas  
Spleen  
Thyroid Gland

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Lung  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Skin  
Thymus

**OBSERVATIONS**

Bone Marrow  
Brain  
Kidney  
Liver  
  
Nose  
Ovary  
    [ Cyst TGLS = 2-4 ]  
Salivary Glands  
Uterus

Sternal  
Thalamus  
  
  
  
  
Submandibul GI  
  
Endometrium

Myelofibrosis  
Mineralization  
Inflammation  
Inflammation  
Necrosis  
Inflammation  
Cyst  
  
Inflammation  
Hydrometra  
Hyperplasia

Mild  
Minimal  
Chronic, Minimal  
Chronic Active, Minimal  
Minimal  
Acute, Minimal  
Moderate  
  
Chronic, Minimal  
Moderate  
Mild

Note: HYDROMETRA TGLs = 3-4.1

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 358

**TRT#:** 7  
**DOSE:** 2,000 PPM FEM

**SEX:** Female  
**DISP:** Moribund

**DAY ON TEST:** 467  
**HISTO:** 870897

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla	Bone	Brain	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Thymus

**OBSERVATIONS**

Adrenal Gland	Cortex	Hematopoietic Cell Proliferation	Mild
Bone Marrow	Sternal	Lymphoma Malignant Undifferentiated Cell Type	
Heart		Mineralization	Minimal
Kidney	Renal Tubule	Degeneration	Hyaline, Mild
Note: DEGEN      TGLs = 7-3			
Liver		Lymphoma Malignant Undifferentiated Cell Type	
[ Lymphoma Malignant Undifferentiated Cell Type TGLs = 2-2 ]			
Lung		Lymphoma Malignant Undifferentiated Cell Type	
Lymph Node	Mesenteric	Lymphoma Malignant Undifferentiated Cell Type	
Spleen		Hematopoietic Cell Proliferation	Marked
		Lymphoma Malignant Undifferentiated Cell Type	
Note: LYMPH MAL UNDF      TGLs = 4-3.1			
[ Lymphoma Malignant Undifferentiated Cell Type TGLs = 4-3.1 ]			
Stomach	Glandular	Inflammation	Chronic Active, Minimal
Uterus	Endometrium	Hyperplasia	Minimal
Note: HYPERPLASIA      TGLs = 3-4			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 359

TRT#: 7

SEX: Female

DAY ON TEST: 206

DOSE: 2,000 PPM FEM

DISP: Dead

HISTO: 870898

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node - Mesenteric	Thymus
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OBSERVATIONS

Kidney		Glomerulosclerosis Inflammation	Marked Chronic, Mild
Note: OF GLOMERULI.			
Note: THERE IS A MARKED GLOMERULOSCLEROSIS WITH HYALINIZATION			
Note: GLMSCLEROSIS TGLs = 6-3			
Liver		Inflammation	Chronic Active, Minimal
Spleen		Depletion Lymphoid	Minimal
Uterus	Endometrium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 360

TRT#: 7

DOSE: 2,000 PPM FEM

SEX: Female

DISP: Moribund

DAY ON TEST: 681

HISTO: 870899

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Liver	Lung
Mammary Gland	Parathyroid Gland	Pituitary Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Intestine Small	Ileum	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 7-6			
Lymph Node	Lumbar	Lymphoma Malignant Mixed	
	Mandibular	Lymphoma Malignant Mixed	
	Mediastinal	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
	Renal	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 6-9+9.1			
Note: LYMPH MAL MIXD TGLs = 9-10			
Note: LYMPH MAL MIXD TGLs = 10-5.2			
[ Lymphoma Malignant Mixed TGLs = 8-11 ]			
[ Lymphoma Malignant Mixed TGLs = 2-5.1 ]			
Nose		Inflammation	Acute, Minimal
Ovary		Hemangioma	
Note: HEMANGIOMA TGLs = 3-4			
Pancreas		Cytoplasmic Alteration	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 5-3.1			
Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:55

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 360

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 681

**DOSE:** 2,000 PPM FEM

**DISP:** Moribund

**HISTO:** 870899

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HYDROMETRA TGLs = 4-4

Note: HYPERPLASIA TGLs = 4-4

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 361

TRT#: 7

SEX: Female

DAY ON TEST: 736

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870900

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Ovary  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Lung  
Parathyroid Gland  
Stomach - Glandular  
Urinary Bladder

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Mammary Gland  
Pituitary Gland  
Thymus

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Nose  
Skin  
Thyroid Gland

OBSERVATIONS

Bone Marrow  
  
Brain  
Kidney  
Liver

Sternal  
Sternal  
Thalamus

Lymphoma Malignant Mixed  
Myelofibrosis  
Mineralization  
Lymphoma Malignant Mixed  
Hepatocellular Adenoma  
Lymphoma Malignant Mixed

Mild  
Minimal

Note: LYMPH MAL MIXD TGLs = 4-2

Lymph Node  
Pancreas  
Salivary Glands  
Spleen

Mesenteric  
  
Submandibul GI

Lymphoma Malignant Mixed  
Lymphoma Malignant Mixed  
Inflammation  
Lymphoma Malignant Mixed

Chronic, Minimal

Note: LYMPH MAL MIXD TGLs = 3-3

Uterus

Endometrium

Hydrometra  
Hyperplasia

Moderate  
Mild

[ Hydrometra TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 362

TRT#: 7

SEX: Female

DAY ON TEST: 666

DOSE: 2,000 PPM FEM

DISP: Dead

HISTO: 870901

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Esophagus  
Pancreas  
Stomach - Forestomach

Adrenal Gland - Medulla  
Islets, Pancreatic  
Parathyroid Gland  
Thyroid Gland

Bone  
Mammary Gland  
Pituitary Gland  
Trachea

Brain  
Nose  
Skin

MISSING

Thymus

INSUFFICIENT TISSUE

Lymph Node - Mesenteric

OBSERVATIONS

Bone Marrow	Sternal	Histiocytic Sarcoma	Metastatic (Uncertain Primary Site)
Gallbladder		Autolysis	Marked
Heart		Histiocytic Sarcoma	Metastatic (Uncertain Primary Site)
Intestine Large	Cecum	Autolysis	Moderate
	Colon	Autolysis	Moderate
	Rectum	Autolysis	Moderate
Intestine Small	Duodenum	Autolysis	Moderate
	Ileum	Autolysis	Moderate
	Jejunum	Autolysis	Moderate
Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
		Inflammation	Chronic, Minimal
Note: DEGEN	TGLs = 5-3		
Liver		Histiocytic Sarcoma	Metastatic (Uncertain Primary Site)
Lung		Histiocytic Sarcoma	Metastatic (Uncertain Primary Site)
Ovary		Cyst	Marked
		Hemorrhage	Mild
[ Cyst TGLS = 2-4.1 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL	TGLs = 7-3		
Stomach	Glandular	Autolysis	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:55

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 362

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 666

**DOSE:** 2,000 PPM FEM

**DISP:** Dead

**HISTO:** 870901

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Urinary Bladder

Autolysis

Moderate

Uterus

Histiocytic Sarcoma

Hydrometra

Mild

Note: [ HISTIO SARC ] TGLs = 3-4.2

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 363

TRT#: 7

SEX: Female

DAY ON TEST: 736

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870902

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Ovary	Pancreas	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Mesentery		Fibrosis	Minimal
		Necrosis	Minimal

Note: WHAT THE PROSECTOR THOUGHT WAS A PANCREATIC NODULE WAS

Note: ACTUALLY A MESENTERY NODULE.

[ Fibrosis TGLS = 1-5.1 ]

[ Necrosis TGLS = 1-5.1 ]

Nose		Inflammation	Acute, Minimal
Parathyroid Gland		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
Note: ANGIECTASIS	TGLs = 3-7		
Uterus	Endometrium	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 4-4		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 364

TRT#: 7

SEX: Female

DAY ON TEST: 737

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870903

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Skin  
Thymus

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Pancreas  
Spleen  
Trachea

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Parathyroid Gland  
Stomach - Forestomach  
Urinary Bladder

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pituitary Gland  
Stomach - Glandular

**OBSERVATIONS**

Bone Marrow  
Kidney  
Liver  
Nose  
Ovary

Sternal

Myelofibrosis  
Inflammation  
Inflammation  
Inflammation  
Cyst  
Hemorrhage

Mild  
Chronic, Minimal  
Chronic Active, Minimal  
Acute, Minimal  
Mild  
Mild

[ Cyst TGLS = 2-4 ]

Salivary Glands  
Thyroid Gland  
Uterus

Submandibul GI  
Endometrium

Inflammation  
Inflammation  
Hyperplasia

Chronic, Minimal  
Chronic Active, Minimal  
Mild

Note: HYPERPLASIA TGLs = 3-4

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 365

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 453

**DOSE:** 2,000 PPM FEM

**DISP:** Interval Sacrifice

**HISTO:** 860080

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Intestine Large - Cecum  
Intestine Small - Ileum  
Stomach - Glandular

Intestine Large - Colon  
Intestine Small - Jejunum

Intestine Large - Rectum  
Skin

Intestine Small - Duodenum  
Stomach - Forestomach

**OBSERVATIONS**

Clitoral Gland

Cyst  
Inflammation

Multiple, Mild  
Chronic Active, Minimal

Note: CYST TGLs = 5-6

Ovary

Periovarn Tiss

Cyst

Marked

Note: CYST TGLs = 3-4

Uterus

Hydrometra

Marked

Note: HYDROMETRA TGLs = 4-4+4.1

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 366

TRT#: 7

SEX: Female

DAY ON TEST: 737

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870904

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Pituitary Gland  
Stomach - Forestomach  
Urinary Bladder

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Liver  
Nose  
Salivary Glands  
Stomach - Glandular

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Ovary  
Skin  
Thymus

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Trachea

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Bone Marrow  
Brain  
Kidney  
Thyroid Gland  
Uterus  
Note: HYPERPLASIA TGLs = 3-4

Sternal  
Thalamus  
C Cell  
Endometrium

Myelofibrosis  
Mineralization  
Inflammation  
Hyperplasia  
Hyperplasia

Minimal  
Minimal  
Chronic, Minimal  
Minimal  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 367

TRT#: 7

SEX: Female

DAY ON TEST: 737

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870905

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Gallbladder  
Intestine Small - Duodenum  
Lung  
Pancreas  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Heart  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Skin  
Thymus

Bone  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Spleen  
Thyroid Gland

Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Stomach - Forestomach  
Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow  
Brain  
Intestine Large  
Kidney  
Liver  
Ovary  
Pituitary Gland

Sternal  
Thalamus  
Cecum  
  
Pars Distalis  
Pars Distalis

Myelofibrosis  
Mineralization  
Hyperplasia  
Inflammation  
Inflammation  
Cyst  
Angiectasis  
Hyperplasia

Minimal  
Minimal  
Lymphoid, Minimal  
Chronic, Minimal  
Chronic Active, Minimal  
Mild  
Mild  
Mild

Note: ANGIECTASIS TGLs = 4-7

Salivary Glands

Submandibul GI

Inflammation

Chronic, Minimal

Uterus

Endometrium

Hyperplasia

Moderate

Note: HYPERPLASIA TGLs = 2-4

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 368

TRT#: 7

SEX: Female

DAY ON TEST: 737

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870906

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Mammary Gland	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Esophagus

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
Bone Marrow	Sternal	Myelofibrosis	Marked
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
Note: REGENERATION TGLs = 3-3			
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 4-2.1			
Nose		Inflammation	Acute, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild
[ Hyperplasia TGLS = 2-4 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 369

TRT#: 7

SEX: Female

DAY ON TEST: 737

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870907

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Nose  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Ovary  
Stomach - Glandular  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Lymph Node - Mesenteric  
Skin  
Thymus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Mammary Gland  
Spleen  
Thyroid Gland

MISSING

Parathyroid Gland

OBSERVATIONS

Brain  
Kidney  
Liver  
    Note: HEPATOCLR CARC TGLs = 3-2.1  
Lung  
Pancreas  
    [ Cyst TGLS = 2-5 ]  
Pituitary Gland  
    Note: ADENOMA TGLs = 4-7  
Salivary Glands  
Uterus

Thalamus  
  
  
  
  
  
Pars Distalis  
Submandibul GI  
Endometrium

Mineralization  
Inflammation  
Hepatocellular Carcinoma  
  
Hepatocellular Carcinoma  
Cyst  
  
Adenoma  
  
Inflammation  
Hyperplasia

Minimal  
Chronic, Minimal  
  
  
Metastatic (Liver)  
Mild  
  
  
  
Chronic, Minimal  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 370

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 2,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870908

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Bone	Brain	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**OBSERVATIONS**

Adrenal Gland	Medulla	Hyperplasia	Mild
Bone Marrow	Sternal	Myelofibrosis	Mild
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
Note: IT LOOKS LIKE A TRABECULAR CARCINOMA.			
Note: HEPATOCLR CARC TGLs = 5-2			
Ovary		Cyst	Marked
[ Cyst TGLS = 2-4 ]			
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands	Submandibul GI	Inflammation	Chronic, Mild
Spleen		Hyperplasia	Lymphoid, Mild
Note: COULD BE AN EARLY LYMPHOMA.			
Note: THE SPLEEN HAS BEEN DIAGNOSED AS HYPERPLASIA; BUT, IT			
Note: HYPERPLASIA TGLs = 3-3			
Uterus	Endometrium	Hyperplasia	Mild
[ Hyperplasia TGLs = 7-4 ]			

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 371

TRT#: 7

DOSE: 2,000 PPM FEM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 737

HISTO: 870909

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Ovary	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Gallbladder		Lymphoma Malignant Mixed	
Kidney		Lymphoma Malignant Mixed	
Liver		Hepatocellular Adenoma	
		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 3,5,8-2+2.1 [ Lymphoma Malignant Mixed TGLS = 4-2 ]			
Lung		Lymphoma Malignant Mixed	
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
	Pancreatic	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 7-5			
Pancreas		Lymphoma Malignant Mixed	
Note: SUPPLYING THE PANCREAS. Note: LYMPHOMA INFILTRATES WERE NOTED IN BLOOD VESSELS			
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 6-3			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus		Hydrometra	Marked
	Endometrium	Hyperplasia	Mild
[ Hydrometra TGLS = 2-4.1 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:55

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 371

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 2,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870909

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLS = 2-4+4.1 ]

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 372

TRT#: 7

SEX: Female

DAY ON TEST: 737

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870910

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Lung	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Gallbladder		Inflammation	Chronic, Mild
Heart		Inflammation	Chronic Active, Minimal
Liver		Lymphoma Malignant Mixed	
		Mixed Cell Focus	Moderate
Note: THE LYMPOID INFILTRATES IN THE LIVER LOOK LIKE AN EARLY			
Note: LYMPH MAL MIXD TGLs = 6-2			
Note: MIXED LYMPHOMA.			
Mesentery		Fibrosis	Minimal
		Necrosis	Minimal
[ Fibrosis TGLS = 2-6 ]			
[ Necrosis TGLS = 2-6 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus		Hydrometra	Marked
Note: HYDROMETRA TGLs = 3-4			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 373	<b>TRT#:</b> 7	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 453
	<b>DOSE:</b> 2,000 PPM FEM	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860081

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Spleen	Stomach - Forestomach
Stomach - Glandular	Tissue NOS		

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**MISSING**

Clitoral Gland

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**OBSERVATIONS**

Ovary	Cyst	Minimal
Note: A SMALL HEMORRHAGIC CYST WAS NOTED IN THE OVARY. [ Cyst TGLS = 1-4 ]		
Spleen		
Note: OTHERWISE THE BASIC MORPHOLOGY WAS NORMAL. Note: THERE WAS A CONSTRICTION IN THE MIDDLE OF THE SPLEEN,		
Uterus	Endometrium	Hyperplasia
Note: HYPERPLASIA TGLs = 3-4+4.1		

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PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 374

TRT#: 7

SEX: Female

DAY ON TEST: 737

DOSE: 2,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870911

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Mammary Gland	Ovary	Pancreas
Pituitary Gland	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR CARC TGLs = 7-2			
Note: HEPATOCLR ADEN TGLs = 6-2			
Lung		Inflammation	Chronic Active, Minimal
Mesentery		Fibrosis	Mild
		Necrosis	Mild
Note: FIBROSIS TGLs = 4-6			
Note: NECROSIS TGLs = 4-6			
Nose		Inflammation	Acute, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 3-4			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 375

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 453

**DOSE:** 2,000 PPM FEM

**DISP:** Interval Sacrifice

**HISTO:** 860082

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Intestine Large - Cecum  
Intestine Small - Ileum

Intestine Large - Colon  
Intestine Small - Jejunum

Intestine Large - Rectum  
Stomach - Forestomach

Intestine Small - Duodenum  
Stomach - Glandular

---

**OBSERVATIONS**

Clitoral Gland

Cyst  
Inflammation  
Pigmentation

Multiple, Mild  
Chronic, Minimal  
Minimal

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[ Inflammation TGLS = 3-6 ]

[ Pigmentation TGLS = 1-6 ]

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PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 376	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 733
	<b>DOSE:</b> 10,000 PPM FEM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870735

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

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**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Heart		Inflammation	Chronic Active, Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
		Inflammation	Chronic Active, Minimal
[ Hepatocellular Adenoma TGLS = 2,3-2 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thyroid Gland		Ultimobranchial Cyst	
Uterus	Endometrium	Hyperplasia	Mild

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 377

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 667

**DOSE:** 10,000 PPM FEM

**DISP:** Moribund

**HISTO:** 870736

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
Nose		Inflammation	Acute, Minimal
Ovary		Cyst	Minimal
Note: CYST	TGLs = 2-4		
Salivary Glands	Submandibul GI	Inflammation	Chronic, Mild
Thyroid Gland		Polyarteritis	Mild
Uterus	Endometrium	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 378	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 6
	<b>DOSE:</b> 10,000 PPM FEM	<b>DISP:</b> Dead	<b>HISTO:</b> 843143

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Heart	Intestine Large - Cecum	Islets, Pancreatic
Kidney	Liver	Lung	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Trachea	

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**MISSING**

Mammary Gland	Nose	Pituitary Gland	Spleen
Thymus	Thyroid Gland	Urinary Bladder	Uterus

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**AUTO PRECLUDES DIAG.**

Bone Marrow	Gallbladder	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	

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**OBSERVATIONS**

Lung  
Note: SOME AUTOLYSIS WAS NOTED.

Lymph Node	Mesenteric	Depletion Lymphoid	Marked
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Note: (MESENTERIC)DUE TO THE EXTREME PMD IT IS MORE  
Note: LIKELY THIS NODE IS AUTOLYZED THAN NECROTIC.

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**PRIMARY CAUSE OF DEATH**

-

Animal Note: MANY MISSING TISSUES PRECLUDING A FINAL DIAGNOSIS.  
Animal Note: AUTOLYSIS WAS EXTREME IN THIS ANIMAL AND THERE WERE

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 379

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870737

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Pancreas  
Spleen  
Thyroid Gland

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Lung  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Skin  
Thymus

OBSERVATIONS

Bone Marrow  
Brain  
  
Clitoral Gland  
  
[ Pigmentation TGLS = 2-9 ]  
Kidney  
Liver  
Nose  
Ovary  
Note: CYST TGLs = 3-4  
Salivary Glands  
Uterus

Sternal  
Thalamus  
Thalamus  
Duct  
  
  
  
Submandibul GI  
Endometrium

Myelofibrosis  
Mineralization  
Mineralization  
Dilatation  
Pigmentation  
  
Inflammation  
Inflammation  
Inflammation  
Cyst  
  
Inflammation  
Hyperplasia

Mild  
Minimal  
Minimal  
Mild  
Minimal  
  
Chronic, Minimal  
Chronic Active, Minimal  
Acute, Minimal  
Mild  
  
Chronic, Minimal  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 380

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870738

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Mild
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Minimal
Nose		Inflammation	Acute, Minimal
Ovary		Cyst	Mild
[ Cyst TGLS = 2-4 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Moderate
[ Hyperplasia TGLS = 3-4+4.1 ]			

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 381

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870739

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Nose  
Skin  
Thyroid Gland

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Parathyroid Gland  
Spleen  
Trachea

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Pituitary Gland  
Stomach - Forestomach  
Urinary Bladder

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Mammary Gland  
Salivary Glands  
Stomach - Glandular

OBSERVATIONS

Bone Marrow  
Kidney

Sternal  
  
Renal Tubule

Myelofibrosis  
Inflammation  
Regeneration  
Infarct  
Lymphoma Malignant Mixed

Minimal  
Chronic, Minimal  
Minimal  
Marked

[ Infarct TGLS = 3-2.1 ]  
[ Lymphoma Malignant Mixed TGLS = 5-2+2.1 ]

Lymph Node

Mesenteric  
Mesenteric

Lymphoma Malignant Mixed  
Thrombosis  
Cyst  
Hemorrhage

Mild  
Mild  
Mild

Note: HEMORRHAGE TGLs = 6-4

Note: CYST TGLs = 6-4

Pancreas  
Thymus

Lymphoma Malignant Mixed  
Lymphoma Malignant Mixed

[ Lymphoma Malignant Mixed TGLS = 4-5 ]

Uterus

Hydrometra

Moderate

[ Hydrometra TGLS = 2-4.1 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 382

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 437

**DOSE:** 10,000 PPM FEM

**DISP:** Moribund

**HISTO:** 870740

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla	Bone	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Skin	Stomach - Forestomach
Thyroid Gland	Trachea		

**OBSERVATIONS**

Adrenal Gland	Cortex	Lymphoma Malignant Mixed	
Bone Marrow	Sternal	Lymphoma Malignant Mixed	
Gallbladder		Lymphoma Malignant Mixed	
Heart		Fibrosis	Minimal
Intestine Small	Duodenum	Lymphoma Malignant Mixed	
	Ileum	Lymphoma Malignant Mixed	
Kidney	Renal Tubule	Lymphoma Malignant Mixed	
		Regeneration	Mild
Note: LYMPH MAL MIXD TGLs = 10-3			
Liver		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 9-2			
Lung		Lymphoma Malignant Mixed	
Lymph Node	Mandibular	Lymphoma Malignant Mixed	
	Mediastinal	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 8-5.1			
Note: LYMPH MAL MIXD TGLs = 6-5.2			
[ Lymphoma Malignant Mixed TGLS = 2-5 ]			
Mammary Gland		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 11-3			
Nose		Lymphoma Malignant Mixed	
Ovary		Lymphoma Malignant Mixed	
Pancreas		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 4-5			
Pituitary Gland	Pars Distalis	Lymphoma Malignant Mixed	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 382	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 437
	<b>DOSE:</b> 10,000 PPM FEM	<b>DISP:</b> Moribund	<b>HISTO:</b> 870740

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Salivary Glands	Submandibul GI	Lymphoma Malignant Mixed
Spleen		Lymphoma Malignant Mixed
Note: LYMPH MAL MIXD TGLs = 5-3.1		
Stomach	Glandular	Lymphoma Malignant Mixed
Thymus		Lymphoma Malignant Mixed
Note: LYMPH MAL MIXD TGLs = 7-5.1		
Urinary Bladder		Lymphoma Malignant Mixed
Uterus		Lymphoma Malignant Mixed
Note: LYMPH MAL MIXD TGLs = 3-4		

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 383

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Mammary Gland
Nose	Pancreas	Skin	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node - Mesenteric	Parathyroid Gland
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OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Ovary		Cyst	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-3.1 ]			
Stomach	Forestomach	Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 3-3 ]			
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 384

TRT#: 8

SEX: Female

DAY ON TEST: 400

DOSE: 10,000 PPM FEM

DISP: Moribund

HISTO: 870742

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Parathyroid Gland  
Spleen  
Trachea

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Urinary Bladder

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Liver  
Ovary  
Salivary Glands  
Thymus

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pancreas  
Spinal Cord  
Thyroid Gland

**MISSING**

Stomach - Glandular

**OBSERVATIONS**

Bone  
Note: HYPEROSTOSIS TGLs = 1-9  
Kidney  
Lung  
Note: METAPL TGLs = 5-1.1  
Skin  
Note: CYST EPITH INC TGLs = 4-10  
Uterus

Joint, Tarsal  
  
  
  
  
  
Endometrium

Hyperostosis  
  
Inflammation  
Metaplasia  
  
Cyst Epithelial Inclusion  
  
Hyperplasia

Mild  
  
Chronic, Minimal  
Osseous, Minimal  
  
  
  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 385

TRT#: 8

SEX: Female

DAY ON TEST: 13

DOSE: 10,000 PPM FEM

DISP: Dead

HISTO: 843144

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Parathyroid Gland  
Spleen  
Trachea

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Pituitary Gland  
Stomach - Forestomach  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Kidney  
Ovary  
Salivary Glands  
Stomach - Glandular  
Uterus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Pancreas  
Skin  
Thyroid Gland

AUTO PRECLUDES DIAG.

Gallbladder                      Lymph Node - Mesenteric

OBSERVATIONS

Nose                                      Vomeronas Org                                      Inflammation                                      Acute, Minimal  
Thymus                                                                           Necrosis                                      Marked

Note: IS A REAL LESION.  
Note: THE EXTENSIVE PYKNOSIS OF THE NUCLEI IN THIS  
Note: ORGAN SUGGESTS MASSIVE NECROSIS, HOWEVER IT COULD  
Note: ALSO BE PMD. SINCE PYKNOSIS WAS NOT OBSERVED IN  
Note: THE OTHER LYMPHOID ORGANS THE SUGGESTION IS IT

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 386

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Salivary Glands  
Thymus

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Lung  
Skin  
Trachea

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Stomach - Forestomach  
Urinary Bladder

Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Pancreas  
Stomach - Glandular

MISSING

Gallbladder Parathyroid Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Kidney		Inflammation	Chronic, Minimal
		Lymphoma Malignant Mixed	
Liver		Hepatocellular Adenoma	Multiple
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR ADEN TGLs = 6,7,8-2			
Mammary Gland		Hyperplasia	Minimal
Nose		Inflammation	Acute, Minimal
Ovary		Cyst	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 10-7			
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 4-3			
Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
Note: ADENOMA TGLs = 9-5			
Note: HYPERPLASIA TGLs = 9-5			
Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Mild
[ Hydrometra TGLS = 3-4 ]			

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:55

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 386

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870743

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLS = 3-4 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 387

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Pancreas	Parathyroid Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Mild
Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR ADEN TGLs = 4-2			
Nose		Inflammation	Acute, Minimal
Ovary		Cyst	Mild
		Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 5-4			
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands	Sublingual GI	Inflammation	Chronic, Minimal
	Submandibular GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Moderate
[ Hyperplasia TGLs = 2,3-4 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

<b>ANIMAL ID:</b> 388	<b>TRT#:</b> 8 <b>DOSE:</b> 10,000 PPM FEM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 733 <b>HISTO:</b> 870745
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Skin	Spleen
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Clitoral Gland		Pigmentation	Minimal
[ Pigmentation TGLS = 2-9 ]			
Kidney	Renal Tubule	Inflammation	Chronic, Minimal
		Regeneration	Minimal
Liver		Inflammation	Chronic Active, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Forestomach	Acanthosis	Minimal
	Forestomach	Hyperkeratosis	Minimal
[ Acanthosis TGLS = 3-3 ]			
[ Hyperkeratosis TGLS = 3-3 ]			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02  
 Test Type: CHRONIC  
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Test Compound: Turmeric, oleoresin (curcumin)  
 CAS Number: 8024-37-1

Date Report Requested: 10/19/2014  
 Time Report Requested: 11:23:55  
 First Dose M/F: NA / NA  
 Lab: TSI MASON

ANIMAL ID: 389                      TRT#: 8                      SEX: Female                      DAY ON TEST: 609  
 DOSE: 10,000 PPM FEM                      DISP: Dead                      HISTO: 870746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Pituitary Gland

MISSING

Adrenal Gland - Medulla	Mammary Gland	Ovary
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OBSERVATIONS

Adrenal Gland	Cortex	Lymphoma Malignant Mixed	
Bone Marrow	Sternal	Lymphoma Malignant Mixed	
Brain		Lymphoma Malignant Mixed	
Gallbladder		Autolysis	Mild
Heart		Lymphoma Malignant Mixed	
Intestine Large	Cecum	Lymphoma Malignant Mixed	
Intestine Small	Ileum	Lymphoma Malignant Mixed	
Kidney		Lymphoma Malignant Mixed	
Liver		Lymphoma Malignant Mixed	
Lung		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 9-1+2			
Lymph Node	Lumbar	Lymphoma Malignant Histiocytic	
	Axillary	Lymphoma Malignant Mixed	
	Inguinal	Lymphoma Malignant Mixed	
	Mandibular	Lymphoma Malignant Mixed	
	Mediastinal	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 4-10			
Note: LYMPH MAL MIXD TGLs = 3-9			
Note: LYMPH MAL HIST TGLs = 8-11			
[ Lymphoma Malignant Mixed TGLS = 7-2.1 ]			
[ Lymphoma Malignant Mixed TGLS = 2-5 ]			
Nose		Lymphoma Malignant Mixed	
Pancreas		Lymphoma Malignant Mixed	
Parathyroid Gland		Lymphoma Malignant Mixed	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 389	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 609
	<b>DOSE:</b> 10,000 PPM FEM	<b>DISP:</b> Dead	<b>HISTO:</b> 870746

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Salivary Glands	Submandibul GI	Lymphoma Malignant Mixed
Skin	Subcut Tiss	Lymphoma Malignant Mixed
Spleen		Lymphoma Malignant Mixed
Note: LYMPH MAL MIXD TGLs = 6-3.1		
Stomach	Forestomach	Lymphoma Malignant Mixed
	Glandular	Lymphoma Malignant Mixed
Thymus		Lymphoma Malignant Mixed
Thyroid Gland		Lymphoma Malignant Mixed
Trachea		Lymphoma Malignant Mixed
Urinary Bladder		Lymphoma Malignant Mixed
Uterus		Lymphoma Malignant Mixed

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 390

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 453

**DOSE:** 10,000 PPM FEM

**DISP:** Interval Sacrifice

**HISTO:** 860064

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Skin

Stomach - Forestomach

Stomach - Glandular

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**OBSERVATIONS**

Uterus

Hydrometra

Moderate

[ Hydrometra TGLS = 3-4 ]

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 391

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Esophagus
Gallbladder	Heart	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node - Mesenteric	Mammary Gland	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Adrenal Gland - Medulla

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Clitoral Gland		Pigmentation	Minimal
Note: PIGMENT TGLs = 3-9			
Intestine Large	Cecum	Lymphoma Malignant Mixed	
Intestine Small	Duodenum	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 5-6			
Kidney		Inflammation	Chronic, Minimal
Nose		Inflammation	Acute, Minimal
Uterus	Cervix	Basosquamous Tumor Malignant	
	Endometrium	Hyperplasia	Moderate
Note: SQUAMOUS AND BASAL CELLS.			
Note: BASOSQU TM MAL TGLs = 4-4.1			
Note: HYPERPLASIA TGLs = 6-4+4.1			
Note: THE CERVICAL TUMOR DID NOT CONTAIN ANY SQUAMOUS			
Note: PEARLS; HOWEVER, IT DID APPEAR TO BE A COMBINATION OF			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 392

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 9

**DOSE:** 10,000 PPM FEM

**DISP:** Dead

**HISTO:** 843145

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Kidney  
Mammary Gland  
Pituitary Gland  
Stomach - Glandular  
Uterus

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Liver  
Nose  
Salivary Glands  
Thyroid Gland

Bone  
Gallbladder  
Intestine Small - Ileum  
Lung  
Ovary  
Skin  
Trachea

Bone Marrow  
Intestine Large - Cecum  
Islets, Pancreatic  
Lymph Node - Mesenteric  
Pancreas  
Stomach - Forestomach  
Urinary Bladder

**MISSING**

Parathyroid Gland

**AUTO PRECLUDES DIAG.**

Intestine Small - Duodenum

Intestine Small - Jejunum

**OBSERVATIONS**

Heart  
Spleen  
Note: DEPLET LYMPH TGLs = 4-3

Cardiomyopathy  
Depletion Lymphoid

Minimal  
Mild

Thymus  
Note: WAS ENLARGED IT ACTUALLY APPEARS SMALLER.  
Note: DESPITE THE TRIMMERS OBSERVATION THAT THE THYMUS

Depletion Lymphoid

Moderate

**PRIMARY CAUSE OF DEATH**

-

Animal Note: IS NOT APPARENT.

Animal Note: THE IMMEDIATE CAUSE OF DEATH IN THIS ANIMAL

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 393

TRT#: 8

SEX: Female

DAY ON TEST: 705

DOSE: 10,000 PPM FEM

DISP: Moribund

HISTO: 870748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Adrenal Gland - Medulla	Lymph Node - Mesenteric
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OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Mild
		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 3-2.1			
Mesentery		Fibrosis	Mild
		Inflammation	Chronic Active, Mild
		Necrosis	Mild
Note: INFLAMMATION TGLs = 2-9			
Note: NECROSIS TGLs = 2-9			
Nose		Inflammation	Acute, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Mild
Thymus		Hyperplasia	Lymphoid, Mild
Uterus	Endometrium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 394

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870749

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Lung  
Skin  
Thymus

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Spleen  
Thyroid Gland

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Stomach - Forestomach  
Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow  
Brain  
Kidney  
Liver

Sternal  
Thalamus

Myelofibrosis  
Mineralization  
Inflammation  
Hepatocellular Adenoma  
Inflammation

Moderate  
Minimal  
Chronic, Minimal  
Chronic Active, Minimal

[ Hepatocellular Adenoma TGLS = 3-2 ]

Ovary

[ Cyst TGLS = 2-4.1 ]

Cyst

Marked

Pancreas  
Pituitary Gland  
Salivary Glands  
Uterus

Pars Distalis  
Submandibul GI  
Endometrium

Cytoplasmic Alteration  
Hyperplasia  
Inflammation  
Hyperplasia

Minimal  
Minimal  
Chronic, Minimal  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 395

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 453

**DOSE:** 10,000 PPM FEM

**DISP:** Interval Sacrifice

**HISTO:** 860065

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Skin

Stomach - Forestomach

Stomach - Glandular

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**OBSERVATIONS**

Liver

Clear Cell Focus

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 396

TRT#: 8

SEX: Female

DAY ON TEST: 677

DOSE: 10,000 PPM FEM

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Colon
Intestine Large - Rectum	Islets, Pancreatic	Liver	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea		

MISSING

Gallbladder

OBSERVATIONS

Clitoral Gland		Pigmentation	Minimal
[ Pigmentation TGLS = 2-9 ]			
Intestine Large	Cecum	Autolysis	Moderate
Intestine Small	Duodenum	Autolysis	Marked
	Ileum	Autolysis	Marked
	Jejunum	Autolysis	Marked
Kidney		Inflammation	Chronic, Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
[ Infiltration Cellular TGLS = 5-1.1 ]			
Urinary Bladder		Autolysis	Mild
Uterus		Angiectasis	Mild
		Hydrometra	Marked
[ Angiectasis TGLS = 4-4.1 ]			
[ Hydrometra TGLS = 3-4.1 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 397

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870751

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Nose	Ovary
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Adrenal Gland - Medulla	Parathyroid Gland
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OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
		Lymphoma Malignant Mixed	
		Mixed Cell Focus	Minimal
Note: MIXED CL FOCUS TGLs = 8-2			
Note: HEPATOCLR ADEN TGLs = 9-2.2			
[ Mixed Cell Focus TGLS = 5-2.2 ]			
Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
Note: ALV BRON ADEN TGLs = 6-1.1			
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 7-5			
Pancreas		Lymphoma Malignant Mixed	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[ Hyperplasia TGLS = 3-7 ]			
Spleen		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 2-3.1 ]			
Thymus		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 10-5			
Uterus	Endometrium	Hyperplasia	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:55

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 397

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870751

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HYPERPLASIA    TGLs = 4-4

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 398

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 453

**DOSE:** 10,000 PPM FEM

**DISP:** Interval Sacrifice

**HISTO:** 860066

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Intestine Large - Cecum  
Intestine Small - Ileum

Intestine Large - Colon  
Intestine Small - Jejunum

Intestine Large - Rectum  
Stomach - Forestomach

Intestine Small - Duodenum

**OBSERVATIONS**

Lung

Alveolar/Bronchiolar Adenoma  
Infiltration Cellular

Histiocyte, Mild

[ Alveolar/Bronchiolar Adenoma TGLS = 2-1.1 ]

Stomach

Glandular

Inflammation

Minimal

Uterus

Endometrium

Hyperplasia

Moderate

Note: HYPERPLASIA TGLs = 3-4

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 399

TRT#: 8

SEX: Female

DAY ON TEST: 524

DOSE: 10,000 PPM FEM

DISP: Moribund

HISTO: 870752

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Skin	Stomach - Forestomach	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Kidney		Inflammation	Chronic, Mild
Liver		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR CARC TGLs = 3-2.1+2.2			
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Ovary		Cyst	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL TGLs = 5-3			
Stomach	Epithelium, Glandular	Hyperplasia	Minimal
		[ Hyperplasia TGLS = 2-3 ]	
Uterus	Endometrium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 400

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Liver	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

MISSING

Adrenal Gland - Medulla

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Moderate
Brain	Thalamus	Mineralization	Minimal
Stomach	Forestomach	Acanthosis	Minimal
	Forestomach	Hyperkeratosis	Minimal
Note: ACANTHOSIS TGLs = 5-3.1 [ Acanthosis TGLS = 5-3.1 ]			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus		Histiocytic Sarcoma	
		Hydrometra	Marked
Note: [ HISTIO SARC ] TGLs = 4-4 [ Hydrometra TGLS = 3-4 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 401

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870754

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Mammary Gland  
Pituitary Gland  
Stomach - Glandular

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Ovary  
Skin  
Thymus

Bone  
Intestine Large - Cecum  
Islets, Pancreatic  
Pancreas  
Spleen  
Trachea

Esophagus  
Intestine Large - Colon  
Lung  
Parathyroid Gland  
Stomach - Forestomach  
Urinary Bladder

OBSERVATIONS

Bone Marrow  
Brain  
Intestine Small

Sternal  
Thalamus  
Ileum  
Jejunum

Myelofibrosis  
Mineralization  
Lymphoma Malignant Mixed  
Lymphoma Malignant Mixed

Minimal  
Minimal

Note: LYMPH MAL MIXD TGLs = 3-6

Kidney  
Liver

Inflammation  
Eosinophilic Focus  
Hepatocellular Adenoma  
Hepatocellular Carcinoma  
Lymphoma Malignant Mixed

Chronic, Minimal  
Minimal

[ Hepatocellular Carcinoma TGLS = 2-2.1 ]

Lymph Node  
Nose  
Salivary Glands  
Thyroid Gland  
Uterus

Mesenteric  
Submandibul GI  
Follicular Cel  
Endometrium

Hyperplasia  
Inflammation  
Inflammation  
Hyperplasia  
Hyperplasia

Lymphoid, Mild  
Acute, Minimal  
Chronic, Minimal  
Minimal  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 402

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 534

**DOSE:** 10,000 PPM FEM

**DISP:** Moribund

**HISTO:** 870755

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Liver  
Nose  
Skin  
Thymus

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Pancreas  
Spleen  
Thyroid Gland

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

**OBSERVATIONS**

Bone Marrow  
Brain  
Kidney  
Ovary  
Salivary Glands  
Uterus

Sternal  
Thalamus  
  
Submandibul GI  
  
Endometrium

Myelofibrosis  
Mineralization  
Inflammation  
Cyst  
Inflammation  
Hydrometra  
Hyperplasia

Minimal  
Minimal  
Chronic, Minimal  
Mild  
Chronic, Mild  
Moderate  
Mild

[ Hydrometra TGLS = 2-4 ]

[ Hyperplasia TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 403

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870756

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Urinary Bladder

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Lung  
Ovary  
Salivary Glands  
Stomach - Glandular

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Parathyroid Gland  
Spleen  
Trachea

OBSERVATIONS

Bone Marrow  
Brain  
Kidney  
Liver

Sternal  
Thalamus

Myelofibrosis  
Mineralization  
Inflammation  
Eosinophilic Focus  
Hepatocellular Adenoma

Minimal  
Minimal  
Chronic, Minimal  
Minimal

Note: HEPATOCLR ADEN TGLs = 4-2  
Mesentery

Fibrosis  
Inflammation  
Necrosis

Mild  
Chronic Active, Mild  
Mild

Note: NECROSIS TGLs = 2-9  
Note: FIBROSIS TGLs = 2-9  
Note: INFLAMMATION TGLs = 2-9  
Thyroid Gland

Follicular Cel

Adenoma  
Cyst Multilocular  
Hydrometra  
Hyperplasia

Mild  
Moderate  
Mild

Uterus

Endometrium

Note: HYDROMETRA TGLs = 3-4

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 404	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 450
	<b>DOSE:</b> 10,000 PPM FEM	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860067

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Liver	Skin
Stomach - Forestomach			

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**OBSERVATIONS**

Mesentery		Fibrosis	Mild
		Hemorrhage	Mild
		Inflammation	Chronic, Mild
		Necrosis	Coagulative, Mild

Note: INFLAMMATION TGLs = 3-6

Note: NECROSIS TGLs = 3-6

[ Inflammation TGLS = 3-6 ]

[ Necrosis TGLS = 3-6 ]

Stomach	Glandular	Inflammation	Chronic, Minimal
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 405	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 450
	<b>DOSE:</b> 10,000 PPM FEM	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860068

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Forestomach	Stomach - Glandular

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**OBSERVATIONS**

Skin	Epidermis	Inflammation	Acute, Minimal
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 406

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870757

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Salivary Glands	Submandibul Gl	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hydrometra	Mild
		Hyperplasia	Minimal

[ Hydrometra TGLS = 2-4.1 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 407	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 450
	<b>DOSE:</b> 10,000 PPM FEM	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860069

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum		

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**OBSERVATIONS**

Stomach	Glandular	Inflammation	Chronic, Minimal
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 408

TRT#: 8

SEX: Female

DAY ON TEST: 667

DOSE: 10,000 PPM FEM

DISP: Moribund

HISTO: 870758

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 4,7,8,9-2+2.1			
Lung		Sarcoma	Metastatic (Skeletal Muscle)
Ovary		Cystadenoma	
Note: CYSTADENOMA TGLs = 2-4			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Skeletal Muscle		Sarcoma	
Note: A POORLY DIFFERENTIATED SARCOMA.			
Note: THE MASS ARISING IN THE DORSAL NECK APPEARED TO BE			
[ Sarcoma TGLS = 1-9 ]			
Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL TGLs = 6-3			
Uterus		Hydrometra	Mild
Note: HYDROMETRA TGLs = 3-4			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 409

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870759

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Adrenal Gland - Medulla	Parathyroid Gland
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OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Eye	Lens	Cataract	Minimal
[ Cataract TGLS = 2-9 ]			
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR ADEN TGLs = 10,12,13-2+2.1			
Nose		Inflammation	Acute, Minimal
Ovary		Cyst	Moderate
		Hemorrhage	Moderate
[ Cyst TGLS = 4-4 ]			
[ Hemorrhage TGLS = 3-4 ]			
Pancreas		Cyst	Marked
Note: CYST TGLs = 8-5.1			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Moderate
[ Hyperplasia TGLS = 5,6-4 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 410

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870760

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Adrenal Gland - Medulla

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 3-2			
Nose		Inflammation	Acute, Minimal
Ovary		Cyst	Minimal
Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Mild
[ Hydrometra TGLS = 2-4 ]			
[ Hyperplasia TGLS = 2-4 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 411	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 703
	<b>DOSE:</b> 10,000 PPM FEM	<b>DISP:</b> Moribund	<b>HISTO:</b> 870761

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Bone	Bone Marrow	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Parathyroid Gland	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

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**MISSING**

Adrenal Gland - Medulla	Islets, Pancreatic	Pancreas	
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**INSUFFICIENT TISSUE**

Thymus

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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR CARC TGLs = 6-2.1+2.2			
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Note: HEPATOCLR CARC TGLs = 5-1+1.1			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 3-4			

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 412

TRT#: 8

SEX: Female

DAY ON TEST: 721

DOSE: 10,000 PPM FEM

DISP: Dead

HISTO: 870762

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Esophagus  
Ovary  
Skin  
Thyroid Gland

Adrenal Gland - Medulla  
Heart  
Parathyroid Gland  
Spleen  
Trachea

Bone  
Mammary Gland  
Pituitary Gland  
Stomach - Forestomach  
Uterus

Bone Marrow  
Nose  
Salivary Glands  
Stomach - Glandular

MISSING

Islets, Pancreatic

Lymph Node - Mesenteric

Pancreas

Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum  
Intestine Small - Ileum

Intestine Large - Colon  
Intestine Small - Jejunum

Intestine Large - Rectum

Intestine Small - Duodenum

OBSERVATIONS

Brain  
Clitoral Gland  
[ Dilatation TGLS = 2-6 ]

Thalamus  
Duct

Mineralization  
Dilatation  
Autolysis  
Inflammation  
Hepatocellular Carcinoma

Minimal  
Mild  
Marked  
Chronic, Minimal

Gallbladder  
Kidney  
Liver

Note: NODE MASS WAS ACTUALLY A LIVER MASS.  
Note: WHAT THE PROSECTOR DESCRIBED AS A MESENTERIC LYMPH  
Note: HEPATOCLR CARC TGLs = 3-5.1

Lung  
Urinary Bladder

Hepatocellular Carcinoma  
Autolysis

Metastatic (Liver)  
Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 413

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870763

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Bone	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Adrenal Gland - Medulla	Parathyroid Gland
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**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Inflammation	Chronic Active, Minimal
Note: EOSIN FOCUS TGLs = 5-2			
Uterus	Endometrium	Angiectasis	Mild
		Hyperplasia	Mild
[ Angiectasis TGLS = 4-4 ]			
[ Hyperplasia TGLS = 3-4 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 414	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 450
	<b>DOSE:</b> 10,000 PPM FEM	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860070

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Stomach - Forestomach	Stomach - Glandular

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**OBSERVATIONS**

Liver		Fatty Change	Minimal
		Necrosis	Coagulative, Minimal
[ Necrosis TGLS = 4-2 ]			
Uterus	Endometrium	Hyperplasia	Moderate
[ Hyperplasia TGLS = 2,3-4+4.1 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 415

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870764

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Bone	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**MISSING**

Adrenal Gland - Medulla	Esophagus	Gallbladder
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**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 3,4-2			
Lung		Alveolar/Bronchiolar Adenoma	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 2-3 ]			
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 416

TRT#: 8

SEX: Female

DAY ON TEST: 662

DOSE: 10,000 PPM FEM

DISP: Dead

HISTO: 870765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Gallbladder		Autolysis	Moderate
Intestine Small	Duodenum	Autolysis	Mild
	Ileum	Autolysis	Mild
Kidney		Inflammation	Chronic, Minimal
Mesentery		Fibrosis	Minimal
		Necrosis	Mild
Note: NECROSIS TGLs = 3-9 [ Necrosis TGLS = 3-9 ]			
Uterus		Histiocytic Sarcoma	
		Hydrometra	Moderate
Note: [ HISTIO SARC ] TGLs = 5-4			
Note: HYDROMETRA TGLs = 4-4			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 417

TRT#: 8

SEX: Female

DAY ON TEST: 714

DOSE: 10,000 PPM FEM

DISP: Moribund

HISTO: 870766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Moderate
Brain	Thalamus	Mineralization	Minimal
Clitoral Gland		Pigmentation	Minimal
[ Pigmentation TGLS = 3-9 ]			
Kidney		Inflammation	Chronic, Minimal
	Papilla	Necrosis	Moderate
	Renal Tubule	Regeneration	Moderate
Note: REGENERATION TGLs = 5-3			
[ Regeneration TGLS = 5-3 ]			
Liver		Clear Cell Focus	Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Mesenteric	Angiectasis	Mild
[ Angiectasis TGLS = 4-5 ]			
Nose		Inflammation	Acute, Minimal
Ovary		Cyst	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Glandular	Necrosis	Minimal
[ Necrosis TGLS = 8-3 ]			
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 418

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 450

**DOSE:** 10,000 PPM FEM

**DISP:** Interval Sacrifice

**HISTO:** 860071

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Stomach - Forestomach

Stomach - Glandular

**OBSERVATIONS**

Liver

Fatty Change

Minimal

Hepatocellular Adenoma

Necrosis

Coagulative, Minimal

[ Fatty Change TGLS = 3-2 ]

[ Hepatocellular Adenoma TGLS = 5-2 ]

[ Necrosis TGLS = 6-2 ]

Mesentery

Fibrosis

Minimal

Inflammation

Chronic, Minimal

Necrosis

Coagulative, Mild

[ Fibrosis TGLS = 2-6 ]

[ Inflammation TGLS = 2-6 ]

[ Necrosis TGLS = 2-6 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 419

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870767

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Stomach - Forestomach  
Urinary Bladder

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Lung  
Pancreas  
Stomach - Glandular

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Skin  
Thymus

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Spleen  
Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow  
Brain  
Kidney  
Liver  
Ovary  
    Note: ANGIOECTASIS   TGLs = 3-4  
Pituitary Gland  
    Note: ADENOMA        TGLs = 6-7  
Salivary Glands  
Thyroid Gland  
Uterus  
    [ Hyperplasia TGLS = 2-4 ]

Sternal  
Thalamus  
  
  
Pars Distalis  
  
Submandibul GI  
Follicular Cel  
Endometrium

Myelofibrosis  
Mineralization  
Inflammation  
Eosinophilic Focus  
Angiectasis  
  
Adenoma  
  
Inflammation  
Hyperplasia  
Hyperplasia

Mild  
Minimal  
Chronic, Minimal  
Minimal  
Mild  
  
  
Chronic, Minimal  
Mild  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 420

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 10,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870768

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney	Renal Tubule	Atrophy	Minimal
		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Ovary		Cyst	Mild
		Hemorrhage	Mild
Note: HEMORRHAGE      TGLs = 3-4			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Mild
Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Minimal
Note: HYDROMETRA      TGLs = 4-4			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 421

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870769

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Skin  
Thyroid Gland

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Lung  
Ovary  
Spleen  
Trachea

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pancreas  
Stomach - Forestomach  
Urinary Bladder

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Parathyroid Gland  
Stomach - Glandular

**INSUFFICIENT TISSUE**

Thymus

**OBSERVATIONS**

Bone Marrow  
Brain  
Kidney  
Liver  
Pituitary Gland  
Salivary Glands  
Uterus

Sternal  
Thalamus  
  
Pars Distalis  
Submandibul GI  
Endometrium

Myelofibrosis  
Mineralization  
Inflammation  
Inflammation  
Hyperplasia  
Inflammation  
Hyperplasia

Mild  
Minimal  
Chronic, Minimal  
Chronic Active, Minimal  
Mild  
Chronic, Minimal  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 422	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 733
	<b>DOSE:</b> 10,000 PPM FEM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870770

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood	Bone
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

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**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Moderate
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
Note: HEPATOCLR ADEN TGLs = 2-2			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 423

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870771

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Skin  
Thymus

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Ovary  
Spleen  
Thyroid Gland

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pancreas  
Stomach - Forestomach  
Trachea

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Bone Marrow  
Kidney  
Liver

Sternal

Myelofibrosis  
Inflammation  
Basophilic Focus  
Eosinophilic Focus  
Inflammation  
Inflammation  
Hydrometra

Minimal  
Chronic, Minimal  
Minimal  
Minimal  
Chronic Active, Minimal  
Chronic, Minimal  
Marked

Salivary Glands  
Uterus

Submandibul GI

Note: HYDROMETRA TGLs = 2-4

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 424

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Mammary Gland	Nose	Ovary
Pancreas	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Clitoral Gland		Pigmentation	Minimal
[ Pigmentation TGLS = 2-6 ]			
Intestine Small	Epithelium, Ileum	Hyperplasia	Minimal
	Ileum	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 6-6 ]			
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Lymph Node	Bronchial	Lymphoma Malignant Mixed	
	Mandibular	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 8-1			
Note: LYMPH MAL MIXD TGLs = 3-5.1			
Note: LYMPH MAL MIXD TGLs = 7-5+5.2			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thymus		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 4-4			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:55

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 424

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870772

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 425

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870773

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Gallbladder	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Heart		Inflammation	Chronic Active, Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
[ Hepatocellular Adenoma TGLS = 5-2 ]			
[ Hepatocellular Carcinoma TGLS = 3-2.1 ]			
Lung			
Note: PROBABLY RELATED TO HANDLING AT NECROPSY.			
Note: THE FRESH HEMORRHAGE OBSERVED WITHIN THE LUNG IS			
Ovary		Cyst	Mild
[ Cyst TGLS = 2-4 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild
[ Hyperplasia TGLS = 6-4 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 426

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870774

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Ovary  
Skin  
Thymus

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Thyroid Gland

OBSERVATIONS

Bone Marrow  
Kidney  
Liver

Sternal

Myelofibrosis  
Inflammation  
Angiectasis  
Clear Cell Focus  
Hepatocellular Adenoma  
Hepatocellular Carcinoma  
Inflammation

Minimal  
Chronic, Minimal  
Mild  
Minimal  
Chronic Active, Minimal

Note: HEPATOCLR CARC TGLs = 2-2.1

Note: HEPATOCLR ADEN TGLs = 3-2.1

Note: CLEAR CL FOCUS TGLs = 4-2

Note: ANGIECTASIS TGLs = 5-2

Salivary Glands

Submandibul GI

Inflammation

Chronic, Minimal

Uterus

Endometrium

Hyperplasia

Mild

Note: HYPERPLASIA TGLs = 6-4

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 427

TRT#: 8

SEX: Female

DAY ON TEST: 704

DOSE: 10,000 PPM FEM

DISP: Moribund

HISTO: 870775

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Pituitary Gland	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland	Thymus
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OBSERVATIONS

Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 9-2			
Note: HEPATOCLR CARC TGLs = 7-2.1			
Note: HEPATOCLR ADEN TGLs = 8-2.2			
Lymph Node	Mediastinal	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 6-1.1			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Skin	Subcut Tiss	Hemangiosarcoma	
Note: HEMANGIOSARC TGLs = 4-9			
Spleen		Hemangiosarcoma	
Note: HEMANGIOSARC TGLs = 5-2.2			
Uterus	Endometrium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 428

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870776

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Mammary Gland	Nose	Pancreas	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Esophagus	Parathyroid Gland
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OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Heart		Inflammation	Chronic Active, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Inflammation	Chronic, Minimal
Liver		Basophilic Focus	Mild
		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Mild
Note: HEPATOCLR ADEN TGLs = 5-2			
Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Ovary		Cyst	Mild
[ Cyst TGLS = 2-4 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Mild

Note: HYPERPLASIA TGLs = 3,6-4

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 429

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870777

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Ovary  
Spleen  
Trachea

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Lung  
Pancreas  
Stomach - Forestomach  
Urinary Bladder

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pituitary Gland  
Stomach - Glandular

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Skin  
Thymus

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Bone Marrow  
Brain  
Kidney  
Liver  
Nose  
Salivary Glands  
  
Thyroid Gland  
Uterus

Sternal  
Thalamus  
  
Sublingual GI  
Submandibular GI  
Follicular Cell  
Endometrium

Myelofibrosis  
Mineralization  
Inflammation  
Inflammation  
Inflammation  
Inflammation  
Inflammation  
Hyperplasia  
Hyperplasia

Mild  
Minimal  
Chronic, Minimal  
Chronic Active, Minimal  
Acute, Minimal  
Chronic, Minimal  
Chronic, Minimal  
Minimal  
Mild

Note: HYPERPLASIA TGLs = 3-4

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 430

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Mammary Gland
Pancreas	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	Multiple
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR CARC TGLs = 6,7-2+2.1			
Lymph Node	Bronchial	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 8-5			
Note: LYMPH MAL MIXD TGLs = 9-1			
Nose		Inflammation	Acute, Minimal
Ovary		Cyst	Mild
Note: CYST TGLs = 4-4			
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Mild
Skin	Subcut Tiss	Fibrosarcoma	
Note: FIBROSARC TGLs = 3-9			
Spleen		Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 5-3			
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 431

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Mammary Gland	Ovary	Parathyroid Gland
Pituitary Gland	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Intestine Small	Duodenum	Inflammation	Chronic, Minimal
Kidney	Transit Epithe	Hyperplasia	Mild
		Inflammation	Chronic, Mild
Liver		Hepatocellular Carcinoma	Multiple
		Inflammation	Chronic Active, Mild
Note: HEPATOCLR CARC TGLs = 4,5-2+2.1			
Lung		Inflammation	Chronic Active, Moderate
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Moderate
Note: HYPERPLASIA TGLs = 3-5.1			
Nose		Inflammation	Acute, Minimal
Pancreas	Acinus	Atrophy	Marked
		Fibrosis	Marked
		Inflammation	Chronic Active, Marked
Note: WAS ACTUALLY THE PANCREAS.			
Note: THE PANCREATIC LYMPH NODE WAS ALSO INCLUDED WITH THE			
Note: MASS.			
Note: FIBROSIS TGLs = 3-5.1			
Note: INFLAMMATION TGLs = 3-5.1			
Note: WHAT THE PROSECTOR THOUGHT WAS A MESENTERIC LYMPH NODE			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Fibrosis	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 431

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870779

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Fibrosis TGLS = 2-3 ]

[ Inflammation TGLS = 2-3 ]

Uterus

Endometrium

Inflammation

Granulomatous, Mild

Hyperplasia

Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 432

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Pancreas
Pituitary Gland	Salivary Glands	Skin	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
		Lymphoma Malignant Mixed	

Note: HEPATOCLR ADEN TGLs = 9,10,11-2+2.1

Lymph Node	Bronchial	Lymphoma Malignant Mixed	
	Iliac	Lymphoma Malignant Mixed	
	Lumbar	Lymphoma Malignant Mixed	
	Mediastinal	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
	Pancreatic	Lymphoma Malignant Mixed	
	Renal	Lymphoma Malignant Mixed	

Note: LYMPH MAL MIXD TGLs = 8-10

Note: LYMPH MAL MIXD TGLs = 16-11

Note: LYMPH MAL MIXD TGLs = 4-5.1

Note: LYMPH MAL MIXD TGLs = 6-9

[ Lymphoma Malignant Mixed TGLS = 7-5 ]

[ Lymphoma Malignant Mixed TGLS = 14-5.2 ]

[ Lymphoma Malignant Mixed TGLS = 15-1 ]

Nose		Inflammation	Acute, Minimal
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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 432	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 736
	<b>DOSE:</b> 10,000 PPM FEM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870780

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Ovary Note: CYST TGLs = 2-4.1		Cyst	Marked
Spleen Note: LYMPH MAL MIXD TGLs = 3-3		Lymphoma Malignant Mixed	
Stomach Note: SQUAM CEL CARC TGLs = 5,17-3.1	Forestomach	Squamous Cell Carcinoma	
Thymus Note: LYMPH MAL MIXD TGLs = 13-5.2		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Moderate

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 433

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 10,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870781

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Ovary
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Mild
		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	Mild
		Necrosis	Minimal
Note: [ EOSIN FOCUS ] TGLs = 5-2.1			
Note: [ MIXED CL FOCUS ] TGLs = 6-2			
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 4-1			
Nose		Inflammation	Acute, Minimal
Pancreas		Cytoplasmic Alteration	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 7-7			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thyroid Gland		Inflammation	Chronic Active, Minimal
Uterus		Hydrometra	Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 434

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 450

**DOSE:** 10,000 PPM FEM

**DISP:** Interval Sacrifice

**HISTO:** 860072

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Intestine Large - Cecum  
Intestine Small - Ileum

Intestine Large - Colon  
Intestine Small - Jejunum

Intestine Large - Rectum  
Stomach - Forestomach

Intestine Small - Duodenum

**OBSERVATIONS**

Clitoral Gland

Cyst  
Inflammation  
Pigmentation

Mild  
Chronic, Minimal  
Minimal

Note: CYST      TGLs = 1-6  
Liver

Inflammation  
Necrosis

Chronic Active, Minimal

Stomach

Glandular

Inflammation

Mild

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 435

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 10,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870782

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Ovary  
Skin  
Thymus

Clitoral Gland  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Thyroid Gland

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Pituitary Gland  
Stomach - Forestomach  
Trachea

**MISSING**

Adrenal Gland - Medulla

Parathyroid Gland

**OBSERVATIONS**

Bone Marrow  
Brain  
Kidney  
Liver

Sternal  
Thalamus

Myelofibrosis  
Mineralization  
Inflammation  
Hepatocellular Adenoma  
Inflammation

Mild  
Minimal  
Chronic, Minimal  
Multiple  
Chronic Active, Minimal

[ Hepatocellular Adenoma TGLS = 4-2 ]

Uterus

Endometrium

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 436

TRT#: 9

SEX: Female

DAY ON TEST: 729

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Islets, Pancreatic

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Heart		Inflammation	Chronic Active, Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Mild
		Inflammation	Chronic Active, Minimal
Note: [ EOSIN FOCUS ] TGLs = 2,3-2			
Lung		Inflammation	Chronic Active, Minimal
Note: A SLIGHT INCREASE IN THE NUMBER OF PERIVASCULAR AND PERIBRONCHIOLAR LYMPHOCYTES WAS NOTED.			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Mild
Uterus	Endometrium	Hydrometra	Moderate
		Hyperplasia	Mild

[ Hyperplasia TGLS = 4,5-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 437

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870575

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR ADEN TGLs = 6-2.1			
Ovary		Cyst	Mild
Note: CYST TGLs = 4-4			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 7-4			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 438

TRT#: 9

SEX: Female

DAY ON TEST: 729

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Trachea

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Liver  
Nose  
Pituitary Gland  
Stomach - Glandular

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Ovary  
Skin  
Thymus

OBSERVATIONS

Brain  
Kidney  
Mesentery

Thalamus

Mineralization  
Inflammation  
Fibrosis  
Inflammation  
Necrosis

Minimal  
Chronic, Minimal  
Minimal  
Chronic Active, Minimal  
Minimal

Note: FIBROSIS TGLs = 3-5.1

Note: INFLAMMATION TGLs = 3-5.1

Note: NECROSIS TGLs = 3-5.1

Salivary Glands  
Thyroid Gland  
Uterus

Submandibul GI

Endometrium

Inflammation  
Inflammation  
Hyperplasia

Chronic, Minimal  
Chronic Active, Minimal  
Moderate

[ Hyperplasia TGLS = 4-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 439

TRT#: 9

SEX: Female

DAY ON TEST: 729

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870577

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Skin  
Thyroid Gland

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Lung  
Ovary  
Stomach - Forestomach  
Trachea

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pancreas  
Stomach - Glandular  
Urinary Bladder

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Pituitary Gland  
Thymus

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Bone Marrow  
Brain  
Kidney  
Liver  
Salivary Glands  
Spleen  
[ Hyperplasia TGLS = 3-3 ]  
Uterus

Sternal  
Thalamus  
Submandibul GI  
Endometrium

Myelofibrosis  
Mineralization  
Inflammation  
Inflammation  
Inflammation  
Hyperplasia  
Hyperplasia

Mild  
Minimal  
Chronic, Minimal  
Chronic Active, Minimal  
Chronic, Minimal  
Lymphoid, Mild  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

<b>ANIMAL ID:</b> 440	<b>TRT#:</b> 9	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 453
	<b>DOSE:</b> 50,000 PPM FEM	<b>DISP:</b> Interval Sacrifice	<b>HISTO:</b> 860073

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**OBSERVATIONS**

Intestine Large	Cecum, Epithelium	Pigmentation	Minimal
Note: PIGMENT TGLs = 5-6.1			
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
Note: PIGMENT TGLs = 3-6			
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic, Minimal
		Necrosis	Coagulative, Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Ovary		Cyst	Mild
Note: CYST TGLs = 2-4			
Pancreas		Inflammation	Chronic, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 441

TRT#: 9

SEX: Female

DAY ON TEST: 729

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870578

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Skin  
Thymus

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Spleen  
Trachea

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Pancreas  
Stomach - Forestomach  
Urinary Bladder

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pituitary Gland  
Stomach - Glandular

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Brain  
Kidney  
Liver  
Ovary  
[ Cyst TGLS = 2-4.1 ]

Thalamus

Mineralization  
Inflammation  
Inflammation  
Cyst

Minimal  
Chronic, Minimal  
Chronic Active, Minimal  
Moderate

Salivary Glands

Parotid GI  
Submandibul GI

Inflammation  
Inflammation  
Hyperplasia  
Hydrometra

Chronic, Mild  
Chronic, Mild  
Minimal  
Marked

Thyroid Gland

C Cell

Uterus

[ Hydrometra TGLS = 3-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 442

TRT#: 9

SEX: Female

DAY ON TEST: 729

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870579

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Lung  
Pancreas  
Spleen  
Thyroid Gland

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Bone  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Nose  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Esophagus  
Intestine Large - Colon  
Islets, Pancreatic  
Ovary  
Skin  
Thymus

OBSERVATIONS

Bone Marrow  
Brain  
Intestine Small  
Kidney  
Liver

Sternal  
Thalamus  
Ileum

Myelofibrosis  
Mineralization  
Hyperplasia  
Inflammation  
Hepatocellular Adenoma  
Inflammation

Mild  
Minimal  
Lymphoid, Mild  
Chronic, Minimal  
Chronic Active, Minimal

Note: [ HEPATOCLR ADEN ] TGLs = 5-2.1

Lymph Node  
[ Lymphoma Malignant Mixed TGLS = 4-5 ]

Mesenteric

Lymphoma Malignant Mixed

Salivary Glands  
Uterus

Submandibul GI

Inflammation  
Histiocytic Sarcoma  
Hydrometra

Chronic, Mild  
Moderate

Note: [ HISTIO SARC ] TGLs = 2-4.1

[ Hydrometra TGLS = 3-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 443

TRT#: 9

SEX: Female

DAY ON TEST: 703

DOSE: 50,000 PPM FEM

DISP: Moribund

HISTO: 870581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Ovary  
Skin  
Thymus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Thyroid Gland

MISSING

Gallbladder

OBSERVATIONS

Kidney  
Liver  
Note: HEPATOCLR CARC TGLs = 10-2.1  
Salivary Glands  
Uterus  
Note: HYDROMETRA TGLs = 3-4

Parotid GI  
Submandibul GI

Inflammation  
Hepatocellular Carcinoma  
Atrophy  
Inflammation  
Hydrometra

Chronic, Minimal  
Minimal  
Chronic, Minimal  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 444

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870580

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Bone	Bone Marrow	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

**MISSING**

Adrenal Gland - Medulla

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	
		Histiocytic Sarcoma	Metastatic (Uncertain Primary Site)
Note: [ HISTIO SARC ] TGLs = 8,12,13,14,15-2,2.1			
Note: HEPATOCLR CARC TGLs = 8,9-2.2			
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Note: HEPATOCLR CARC TGLs = 11-1			
Lymph Node	Lumbar	Histiocytic Sarcoma	Metastatic (Uncertain Primary Site)
	Renal	Histiocytic Sarcoma	Metastatic (Uncertain Primary Site)
Pituitary Gland	Pars Distalis	Cyst	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL TGLs = 4-3			
Thyroid Gland		Inflammation	Chronic Active, Minimal
Uterus		Histiocytic Sarcoma	
		Hydrometra	Mild
Note: [ HISTIO SARC ] TGLs = 3-4.1			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 445

TRT#: 9

SEX: Female

DAY ON TEST: 662

DOSE: 50,000 PPM FEM

DISP: Moribund

HISTO: 870582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Adrenal Gland - Medulla	Mammary Gland	Ovary	Skin
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Intestine Small	Ileum	Lymphoma Malignant Mixed	
[ Lymphoma Malignant Mixed TGLS = 2-6.1 ]			
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	Multiple
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR CARC	TGLs = 3,6-2.1+2.2		
Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Note: HEPATOCLR CARC	TGLs = 5-1+1.1		
Lymph Node	Mesenteric	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 8-5		
Salivary Glands	Parotid GI	Inflammation	Chronic, Minimal
	Sublingual GI	Inflammation	Chronic, Minimal
	Submandibular GI	Inflammation	Chronic, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
[ Hematopoietic Cell Proliferation TGLS = 4-3 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 446

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870583

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Skin	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR ADEN TGLs = 3-2			
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 4-5			
Ovary		Cyst	Marked
Note: CYST TGLs = 2-4			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Hyperplasia	Lymphoid, Mild
Stomach	Glandular	Mineralization	Minimal
Uterus		Hydrometra	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 447

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Pituitary Gland	Skin
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Intestine Small	Duodenum	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 4,7-6.1			
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Mild
		Inflammation	Chronic Active, Minimal
Note: [ EOSIN FOCUS ] TGLs = 5-2.1			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 3-3			
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperkeratosis	Minimal
	Forestomach	Inflammation	Chronic Active, Minimal
Note: ACANTHOSIS TGLs = 6-3.1			
Note: INFLAMMATION TGLs = 6-3.1			
Note: HYPERKERATOSIS TGLs = 6-3.1			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Mild
Note: HYDROMETRA TGLs = 2-4			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:55

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 447

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 50,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870584

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLS = 2-4 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 448

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Marked
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Lung			
Note: THE FRESH HEMORRHAGE IS PROBABLY RELATED TO HANDLING			
Note: AT NECROPSY.			
Ovary		Cyst	Mild
		Hemorrhage	Mild
[ Cyst TGLS = 2-4 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Mild

Note: HYDROMETRA TGLs = 3-4

[ Hydrometra TGLs = 3-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 449

TRT#: 9

SEX: Female

DAY ON TEST: 729

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Skin	Spleen	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR ADEN TGLs = 4,5-2.1			
Pituitary Gland	Pars Distalis	Adenoma	
Salivary Glands	Sublingual GI	Inflammation	Chronic, Minimal
	Submandibular GI	Inflammation	Chronic, Minimal
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cell	Hyperplasia	Mild
Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Minimal

[ Hydrometra TGLs = 2-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 450

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870587

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Inflammation	Chronic Active, Minimal
Note: EOSIN FOCUS TGLs = 3-2			
Ovary		Cyst	Mild
[ Cyst TGLS = 2-4 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild
[ Hyperplasia TGLS = 4-4 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 451

TRT#: 9

SEX: Female

DAY ON TEST: 453

DOSE: 50,000 PPM FEM

DISP: Interval Sacrifice

HISTO: 853392

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Rectum	Intestine Small - Duodenum
Islets, Pancreatic	Lung	Mammary Gland	Nose
Pancreas	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Thyroid Gland	Trachea	

MISSING

Intestine Small - Ileum	Parathyroid Gland
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INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Gallbladder		Inflammation	Chronic, Minimal
Intestine Large	Cecum, Epithelium	Pigmentation	Minimal
	Colon, Epithelium	Pigmentation	Minimal
Note: PIGMENT TGLs = 6-6			
Intestine Small	Epithelium, Jejunum	Pigmentation	Minimal
Note: PIGMENT TGLs = 8-6			
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 7-2			
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Ovary		Cyst	Marked
Note: CYST TGLs = 2-4.1			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Forestomach	Acanthosis	Mild
	Forestomach	Hyperkeratosis	Minimal
	Forestomach	Hyperplasia	Basal Cell, Mild
	Epithelium, Glandular	Pigmentation	Minimal
	Forestomach	Ulcer	Acute, Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 451

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 453

**DOSE:** 50,000 PPM FEM

**DISP:** Interval Sacrifice

**HISTO:** 853392

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: ACANTHOSIS TGLs = 9-3.1

Note: ULCER TGLs = 9-3.1

Urinary Bladder

Uterus

Note: HYPERPLASIA TGLs = 3-4+4.1

Endometrium

Inflammation

Hyperplasia

Chronic, Minimal

Moderate

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 452

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870588

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Ovary	Pancreas	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Nose		Inflammation	Acute, Minimal
Salivary Glands	Submandibul Gl	Inflammation	Chronic, Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus	Endometrium	Hydrometra	Moderate
		Hyperplasia	Minimal

[ Hydrometra TGLS = 2-4 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 453

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** 50,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870589

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Marked
Note: HYPERPLASIA    TGLs = 3-6			
Kidney		Inflammation	Chronic, Minimal
		Metaplasia	Osseous, Minimal
Liver		Inflammation	Chronic Active, Minimal
Parathyroid Gland		Inflammation	Chronic, Mild
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus		Hydrometra	Marked
	Endometrium	Hyperplasia	Minimal

[ Hydrometra TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 454

TRT#: 9

SEX: Female

DAY ON TEST: 449

DOSE: 50,000 PPM FEM

DISP: Dead

HISTO: 870590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Islets, Pancreatic	Liver	Lung
Mammary Gland	Nose	Ovary	Pancreas
Pituitary Gland	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Uterus

MISSING

Parathyroid Gland	Thymus
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OBSERVATIONS

Brain	Thalamus Meninges	Mineralization Schwannoma Malignant	Minimal Metastatic (Uncertain Primary Site)
Note: [ SCHWANNOMA MAL ] TGLs = 9,10,11-4			
Gallbladder		Autolysis	Moderate
Intestine Small	Duodenum Ileum Jejunum	Autolysis Autolysis Autolysis	Marked Moderate Marked
Kidney		Inflammation	Chronic, Minimal
Lymph Node	Mesenteric	Depletion Lymphoid	Moderate
Mesentery		Inflammation Necrosis	Chronic Active, Minimal Marked
Note: NECROSIS TGLs = 5-10			
Peripheral Nerve		Schwannoma Malignant	
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Urinary Bladder		Autolysis	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

<b>ANIMAL ID:</b> 455	<b>TRT#:</b> 9	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 50,000 PPM FEM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870591

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Pituitary Gland	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR ADEN TGLs = 4,5-2			
Mesentery		Fibrosis	Minimal
		Hemorrhage	Minimal
		Necrosis	Minimal
Note: FIBROSIS TGLs = 2-9			
Note: NECROSIS TGLs = 2-9			
Note: HEMORRHAGE TGLs = 2-9			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
Uterus	Endometrium	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 3-4			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 456

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 50,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870592

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
Lung	Alveolar Epith	Hyperplasia	Minimal
Ovary		Cyst	Minimal
[ Cyst TGLS = 2-4.1 ]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-7			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen		Hyperplasia	Lymphoid, Mild
Note: THE SPLEEN WAS TAKEN FOR THE ONCOGENE STUDY.			
Note: HYPERPLASIA TGLs = 3-3.1			
Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
Uterus	Endometrium	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 457

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870593

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Islets, Pancreatic  
Mammary Gland  
Pituitary Gland  
Stomach - Glandular

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Liver  
Ovary  
Salivary Glands  
Thymus

Bone  
Heart  
Intestine Small - Ileum  
Lung  
Pancreas  
Skin  
Trachea

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Parathyroid Gland  
Stomach - Forestomach  
Urinary Bladder

**OBSERVATIONS**

Brain  
Intestine Small  
    Note: HYPERPLASIA   TGLs = 4-6  
Kidney  
Nose  
Spleen  
    Note: HYPERPLASIA   TGLs = 3-3.1  
Thyroid Gland  
Uterus  
  
    Note: HYPERPLASIA   TGLs = 2-4  
    Note: HYDROMETRA   TGLs = 2,5-4

Thalamus  
Duodenum  
  
  
  
  
  
  
Endometrium

Mineralization  
Hyperplasia  
  
Inflammation  
Inflammation  
Hyperplasia  
  
Inflammation  
Hydrometra  
Hyperplasia

Minimal  
Lymphoid, Mild  
  
Chronic, Minimal  
Acute, Minimal  
Lymphoid, Mild  
  
Chronic Active, Mild  
Moderate  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 458

TRT#: 9

SEX: Female

DAY ON TEST: 701

DOSE: 50,000 PPM FEM

DISP: Moribund

HISTO: 870594

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Stomach - Forestomach	Thyroid Gland	Trachea

MISSING

Islets, Pancreatic

OBSERVATIONS

Adrenal Gland	Cortex	Lymphoma Malignant Mixed	
	Medulla	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 11-7		
Brain	Thalamus	Mineralization	Minimal
Gallbladder		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 13-2		
Heart		Lymphoma Malignant Mixed	
Kidney		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 14-3		
Liver		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 12-2		
Lung		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 10-1		
Lymph Node	Mandibular	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
	Renal	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 15-9		
Note: LYMPH MAL MIXD	TGLs = 2,3-5.1		
Note: LYMPH MAL MIXD	TGLs = 6-5		
Ovary		Lymphoma Malignant Mixed	
Pancreas		Lymphoma Malignant Mixed	
Salivary Glands	Submandibul GI	Lymphoma Malignant Mixed	
Skeletal Muscle		Lymphoma Malignant Mixed	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 458	<b>TRT#:</b> 9	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 701
	<b>DOSE:</b> 50,000 PPM FEM	<b>DISP:</b> Moribund	<b>HISTO:</b> 870594

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: LYMPH MAL MIXD	TGLs = 7,8,9-8.1+8.2+8.3		
Skin	Subcut Tiss	Lymphoma Malignant Mixed	
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD	TGLs = 4-3.1		
Stomach	Glandular	Lymphoma Malignant Mixed	
Thymus		Lymphoma Malignant Mixed	
Urinary Bladder		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 459

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 453

**DOSE:** 50,000 PPM FEM

**DISP:** Interval Sacrifice

**HISTO:** 853393

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Mammary Gland	Ovary	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Thyroid Gland
Trachea			

**MISSING**

Parathyroid Gland	Thymus
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**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Intestine Large	Cecum, Epithelium	Pigmentation	Minimal
	Colon, Epithelium	Pigmentation	Minimal
Note: PIGMENT	TGLs = 4-6		
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Note: PIGMENT	TGLs = 3-6		
Kidney		Inflammation	Chronic, Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Nose	Glands	Inflammation	Acute, Minimal
Pancreas		Inflammation	Chronic, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Mild
Stomach	Epithelium, Glandular	Pigmentation	Minimal
Urinary Bladder		Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Marked
Note: HYPERPLASIA	TGLs = 2-4+4.1		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 460

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 233

**DOSE:** 50,000 PPM FEM

**DISP:** Moribund

**HISTO:** 870595

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Brain	Meninges	Sarcoma	
Note: SARCOMA TGLs = 8-4.1			
Intest Large			
Note: EPITHELIUM WAS OBSERVED IN ONLY SOME OF THE ANIMALS.			
Note: PIGMENTATION OF THE LARGE OR SMALL INTESTINAL			
Intest Small			
Note: IN MICE.			
Note: SUBMUCOSA OF THE DUODENUM. THIS IS A NORMAL VARIATION			
Note: A PIECE OF ECTOPIC PANCREAS WAS OBSERVED IN THE			
Kidney		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 461	<b>TRT#:</b> 9	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 50,000 PPM FEM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870596

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

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**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR CARC TGLs = 3-2.2			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild
[ Hyperplasia TGLS = 2-4 ]			

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 462

TRT#: 9

SEX: Female

DAY ON TEST: 703

DOSE: 50,000 PPM FEM

DISP: Moribund

HISTO: 870597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Ovary	Pancreas	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney	Renal Tubule	Inflammation	Chronic, Minimal
		Regeneration	Mild
[ Inflammation TGLS = 3-3 ]			
Liver		Hepatocellular Carcinoma	Multiple
Note: HEPATOCLR CARC TGLs = 4,5-2+2.1			
Nose		Inflammation	Acute, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hydrometra	Moderate
		Hyperplasia	Mild
Note: HYDROMETRA TGLs = 6,7-4			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 463

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870598

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Pituitary Gland  
Trachea

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Lung  
Ovary  
Skin  
Urinary Bladder

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pancreas  
Spleen

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Parathyroid Gland  
Thymus

**MISSING**

Stomach - Forestomach

Stomach - Glandular

**OBSERVATIONS**

Bone Marrow  
Brain  
Kidney  
Liver

Sternal  
Thalamus

Myelofibrosis  
Mineralization  
Inflammation  
Eosinophilic Focus  
Inflammation  
Inflammation  
Hyperplasia  
Inflammation  
Hyperplasia

Mild  
Minimal  
Chronic, Minimal  
Mild  
Chronic Active, Minimal  
Chronic, Minimal  
Mild  
Chronic Active, Minimal  
Mild

Salivary Glands  
Thyroid Gland

Submandibul GI  
Follicular Cel

Uterus

Endometrium

Note: HYPERPLASIA TGLs = 2-4

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 464

TRT#: 9

SEX: Female

DAY ON TEST: 453

DOSE: 50,000 PPM FEM

DISP: Interval Sacrifice

HISTO: 853394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Heart	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Gallbladder		Inflammation	Chronic, Minimal
Intestine Large	Cecum, Epithelium	Pigmentation	Minimal
	Colon, Epithelium	Pigmentation	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Note: PIGMENT	TGLs = 1		
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Acute, Minimal
		Necrosis	Coagulative, Minimal
Ovary		Cyst	Mild
Pancreas		Inflammation	Chronic, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Epithelium, Glandular	Pigmentation	Minimal
	Epithelium, Glandular	Pigmentation	Minimal
Note: PIGMENT	TGLs = 7-3		
Urinary Bladder		Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Marked
Note: HYPERPLASIA	TGLs = 3,4-4+4.1		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 465

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Esophagus

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lung

Lymph Node - Mesenteric

Nose

Pancreas

Pituitary Gland

Skin

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

MISSING

Gallbladder

Mammary Gland

Parathyroid Gland

OBSERVATIONS

Bone Marrow

Sternal

Myelofibrosis

Minimal

Brain

Thalamus

Mineralization

Minimal

Kidney

Inflammation

Chronic, Minimal

Liver

Hemangiosarcoma

Metastatic (Spleen)

Hepatocellular Adenoma

Inflammation

Chronic Active, Minimal

Note: HEPATOCLR ADEN TGLs = 5-2

Note: SUGGESTING IT REPRESENTS A METASTATIC FOCUS.

Note: ALTHOUGH THE VASCULAR LESION IN THE LIVER IS SMALL

Note: IT DOES RESEMBLE THE LARGER LESION IN THE SPLEEN

Ovary

Cyst

Mild

Salivary Glands

Submandibul GI

Inflammation

Chronic, Minimal

Spleen

Hemangiosarcoma

Note: HEMANGIOSARC TGLs = 3-3.1

Uterus

Endometrium

Hyperplasia

Mild

[ Hyperplasia TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 466

TRT#: 9

SEX: Female

DAY ON TEST: 667

DOSE: 50,000 PPM FEM

DISP: Moribund

HISTO: 870601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lung	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Gallbladder	Ovary
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OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Liver		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Lymphoma Malignant Mixed	
	Mesenteric	Lymphoma Malignant Mixed	
	Pancreatic	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 6-5			
Note: TISSUE NOS TURNED OUT TO BE A PANCREATIC LYMPH NODE.			
[ Lymphoma Malignant Mixed TGLS = 4-10 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Skeletal Muscle		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 5-11			
Note: THE LESION DESIGNATED SPINAL COLUMN TURNED OUT TO BE			
Note: MIXED LYMPHOMA INFILTRATES IN THE SUBVERTEBRAL MUSCULATURE.			
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 3-3			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Mild
[ Hydrometra TGLS = 2-4 ]			
[ Hyperplasia TGLS = 2-4 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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**ANIMAL ID:** 466

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 667

**DOSE:** 50,000 PPM FEM

**DISP:** Moribund

**HISTO:** 870601

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 467

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 50,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870600

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Intestine Large	Cecum	Leiomyoma	
Note: LEIOMYOMA	TGLs = 4-6		
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Minimal
Note: HYPERPLASIA	TGLs = 5-5		
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 3-4		

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 468

TRT#: 9

SEX: Female

DAY ON TEST: 732

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870602

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR ADEN TGLs = 3-2.1			
Nose		Inflammation	Acute, Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 2-4			
Note: HYDROMETRA TGLs = 2-4			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:55  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 469	<b>TRT#:</b> 9	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 50,000 PPM FEM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870603

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

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**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild

Note: HYPERPLASIA TGLs = 2-4+4.1

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:55

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 470

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Clitoral Gland	Duct	Dilatation	Minimal
		Pigmentation	Minimal
Note: SMALL AGGREGATES OF WHAT APPEAR TO BE MELANIN PIGMENT			
Note: THIS IS CONSIDERED TO BE WITHIN NORMAL LIMITS.			
Note: PIGMENT TGLs = 3-9			
Note: ARE IN THE CONNECTIVE TISSUE SURROUNDING THE GLAND.			
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Nose		Inflammation	Acute, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
Note: ANGIECTASIS TGLs = 6-7			
Uterus		Hydrometra	Marked
Note: HYDROMETRA TGLs = 4-4			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 471

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Lung	Lymph Node - Mesenteric	Mammary Gland	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Islets, Pancreatic		Adenoma	
		Hyperplasia	Mild
[ Adenoma TGLS = 2-6 ]			
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	Mild
Note: MIXED CL FOCUS TGLs = 3-2			
Note: HEPATOCLR ADEN TGLs = 4-2.1			
Nose		Inflammation	Acute, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:56  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 472

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 50,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870606

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Gallbladder	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Pituitary Gland	Skin	Stomach - Forestomach
Stomach - Glandular	Urinary Bladder		

**MISSING**

Esophagus	Islets, Pancreatic	Parathyroid Gland	Thymus
Thyroid Gland	Trachea		

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Heart	Endothelium	Hyperplasia	Minimal
Note: A PECULIAR CHANGE WAS NOTED IN A SUBVENTRICULAR AREA			
Note: AREA WHICH LOOKED LIKE ENDOTHELIAL HYPERPLASIA.			
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR CARC TGLs = 2-2.1			
[ Hepatocellular Adenoma TGLs = 2-2 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Spleen	Endothelium	Hyperplasia	Minimal
Note: IN A FOCAL AREA OF THE SPLEEN THERE APPEARED TO BE			
Note: ANTECEDENT CHANGE TO HEMANGIOSARCOMA. WHAT IS THE			
Note: AND ENDOTHELIAL HYPERPLASIA. THIS COULD BE AN EARLY			
Note: RELATIONSHIP, IF ANY, TO THAT OBSERVED IN THE HEART.			
Uterus	Endometrium	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 473

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870607

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Intestine Small Note: LYMPH MAL MIXD TGLs = 5-6.1	Ileum	Lymphoma Malignant Mixed	
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Lymph Node Note: LYMPH MAL MIXD TGLs = 4-5	Mesenteric	Lymphoma Malignant Mixed	
Ovary Note: CYST TGLs = 2-4.1		Cyst	Moderate
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach Note: HYPERPLASIA TGLs = 6-3.1	Epithelium, Glandular	Hyperplasia	Mild
Thyroid Gland		Ultimobranchial Cyst	
Uterus Note: HYPERPLASIA TGLs = 3-4+4.1	Endometrium	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 474

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Mammary Gland	Ovary	Pancreas
Pituitary Gland	Skin	Thymus	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Clitoral Gland	Duct	Dilatation Pigmentation	Mild Minimal
[ Pigmentation TGLS = 2-9 ]			
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma Inflammation	Multiple Chronic Active, Minimal
Note: HEPATOCLR ADEN TGLs = 5,6-2+2.1			
Nose		Inflammation	Acute, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Mild
Spleen		Hyperplasia	Lymphoid, Mild
Stomach	Forestomach	Acanthosis	Minimal
	Forestomach	Hyperkeratosis	Mild
	Forestomach	Inflammation	Chronic Active, Minimal
	Glandular	Inflammation	Chronic Active, Mild
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tissue NOS		Hemorrhage	Moderate

Note: LESIONS, SLIGHTLY MORE POSTERIOR, HAVE BEEN SEEN IN

Note: HEMORRHAGE TGLs = 3-10

Note: THE MALE MICE. THIS PARTICULAR LESION APPEARED TO BE

Note: A LARGE ECTATIC VASCULAR CHANGE WITHIN A LYMPH NODE.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:56

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 474

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 50,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870608

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: OBSERVED IN THIS AREA IN THE FEMALE MICE. SIMILAR

Note: AREA. THIS APPEARS TO BE THE FIRST VASCULAR LESION

Note: THIS VASCULAR LESION WAS IN THE MID-RETROPERITONEAL

Uterus

Endometrium

Hyperplasia

Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:56  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 475	<b>TRT#:</b> 9	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 50,000 PPM FEM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 870609

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

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**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Nose		Inflammation	Acute, Minimal
Salivary Glands	Parotid GI	Inflammation	Chronic, Mild
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Mild

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:56  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 476

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 450

**DOSE:** 50,000 PPM FEM

**DISP:** Interval Sacrifice

**HISTO:** 853398

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea		

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Intestine Large	Cecum, Epithelium	Pigmentation	Minimal
Note: PIGMENT      TGLs = 5-6			
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Note: PIGMENT      TGLs = 4-6			
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic, Minimal
Ovary		Cyst	Moderate
Note: CYST          TGLs = 2-4			
Stomach	Epithelium, Glandular	Hyperplasia	Mild
	Epithelium, Glandular	Pigmentation	Minimal
Note: PIGMENT      TGLs = 6-3			
[ Pigmentation TGLS = 7-3 ]			
Urinary Bladder		Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 477

TRT#: 9

SEX: Female

DAY ON TEST: 621

DOSE: 50,000 PPM FEM

DISP: Moribund

HISTO: 870610

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mesenteric	Nose	Pancreas	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Kidney		Inflammation	Chronic, Minimal
Mammary Gland		Hyperplasia	Mild
Ovary		Cyst	Mild
[ Cyst TGLS = 2-4 ]			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-7.1			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Marked
		Inflammation	Chronic Active, Minimal
Note: OF MONONUCLEAR CELLS WERE NOTED IN THE INTERSTITIUM.			
Note: THROUGHOUT THE THYROIDS. IN ADDITION SMALL AGGREGATES			
Note: THERE IS DIFFUSE HYPERPLASIA OF FOLLICULAR EPITHELIUM			
Note: HYPERPLASIA TGLs = 4-5			
Uterus		Hydrometra	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 478

TRT#: 9

SEX: Female

DAY ON TEST: 732

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Pituitary Gland
Spleen	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Skin	Sebaceous GI	Hyperplasia	Mild

Note: A SKIN NODULE AT THE RECTAL CUTANEOUS JUNCTION.

Note: HYPERPLASIA TGLs = 4-6.1

Note: WHAT THE PROSECTOR THOUGHT WAS A RECTAL NODULE WAS

Stomach	Forestomach	Squamous Cell Papilloma	
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Note: THE POINT OF ATTACHMENT OF THE FORESTOMACH LESION WAS

Note: TISSUE CORE THE LESION DOES APPEAR TO BE A PAPILLOMA.

Note: NOT PRESENT; HOWEVER, BECAUSE OF THE CONNECTIVE

[ Squamous Cell Papilloma TGLS = 5-3.1 ]

Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Mild

[ Hyperplasia TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 479

TRT#: 9

SEX: Female

DAY ON TEST: 453

DOSE: 50,000 PPM FEM

DISP: Interval Sacrifice

HISTO: 853395

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Nose	Ovary	Pancreas	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Intestine Large	Cecum, Epithelium	Pigmentation	Minimal
	Colon, Epithelium	Pigmentation	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Kidney		Inflammation	Chronic, Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Epithelium, Glandular	Pigmentation	Minimal
Uterus		Hydrometra	Marked
	Endometrium	Hyperplasia	Moderate

Note: HYDROMETRA TGLs = 2-4.1

Note: HYPERPLASIA TGLs = 2-4.1

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 480

TRT#: 9

SEX: Female

DAY ON TEST: 732

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Skin	Spleen
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Ovary		Cyst	Minimal
		Hemorrhage	Minimal
[ Cyst TGLS = 2-4 ]			
[ Hemorrhage TGLS = 2-4 ]			
Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Minimal
Note: ANGIECTASIS TGLs = 4-7			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Mild
Stomach	Forestomach	Squamous Cell Papilloma	
Note: PAPILLOMA SQUA TGLs = 5-3.1			
Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Mild
[ Hydrometra TGLS = 3-4 ]			
[ Hyperplasia TGLS = 3-4 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 481

TRT#: 9

SEX: Female

DAY ON TEST: 450

DOSE: 50,000 PPM FEM

DISP: Interval Sacrifice

HISTO: 853399

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic	Liver
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea		

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Clitoral Gland		Cyst	Multiple, Mild
Note: CYST TGLs = 2-6			
Intestine Large	Cecum, Epithelium	Pigmentation	Minimal
Note: PIGMENT TGLs = 6-6			
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
	Epithelium, Jejunum	Pigmentation	Minimal
Note: PIGMENT TGLs = 5-6			
Kidney		Inflammation	Chronic, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Epithelium, Glandular	Pigmentation	Minimal
Note: PIGMENT TGLs = 4-3			
Urinary Bladder		Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 3-4.1			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 482

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870613

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Ovary		Cyst	Mild
[ Cyst TGLS = 2-4.1 ]			
Salivary Glands	Sublingual GI	Inflammation	Chronic, Minimal
	Submandibular GI	Inflammation	Chronic, Minimal
Uterus		Histiocytic Sarcoma	
	Endometrium	Hyperplasia	Mild

Note: [ HISTIO SARC ] TGLs = 3,6-4.1

[ Hyperplasia TGLS = 3-4+4.1 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 483

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870614

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Adrenal Gland - Medulla	Parathyroid Gland
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OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Clitoral Gland		Pigmentation	Minimal
[ Pigmentation TGLS = 2-9 ]			
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Ovary		Cyst	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Uterus	Endometrium	Hyperplasia	Mild
[ Hyperplasia TGLS = 3-4 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 484

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870615

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**OBSERVATIONS**

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic Active, Minimal
Mesentery		Fibrosis	Mild
		Inflammation	Chronic Active, Minimal
Note: FIBROSIS TGLs = 3-9 [ Fibrosis TGLS = 3-9 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Mild
[ Hydrometra TGLS = 2-4 ] [ Hyperplasia TGLS = 2-4 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 485

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 453

**DOSE:** 50,000 PPM FEM

**DISP:** Interval Sacrifice

**HISTO:** 853396

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Gallbladder	Heart
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Intestine Large	Cecum, Epithelium	Pigmentation	Minimal
	Colon, Epithelium	Pigmentation	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Mild
Note: PIGMENT	TGLs = 2-6		
Kidney		Inflammation	Chronic, Minimal
Stomach	Epithelium, Glandular	Pigmentation	Minimal
Urinary Bladder		Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 486

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870616

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Pancreas
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR ADEN TGLs = 6,8-2+2.1			
Lymph Node	Mesenteric	Angiectasis	Minimal
Note: ANGIECTASIS TGLs = 5-5			
Nose		Inflammation	Acute, Minimal
Ovary		Cyst	Minimal
		Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 3-4			
Pituitary Gland	Pars Distalis	Angiectasis	Minimal
Note: ANGIECTASIS TGLs = 7-7			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 487

TRT#: 9

SEX: Female

DAY ON TEST: 729

DOSE: 50,000 PPM FEM

DISP: Dead

HISTO: 870617

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Islets, Pancreatic	Mammary Gland	Nose
Pituitary Gland	Skin	Stomach - Glandular	Trachea

INSUFFICIENT TISSUE

Parathyroid Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Brain	Thalamus	Mineralization	Minimal
Intestine Large	Cecum	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 21-6			
Intestine Small	Ileum	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 10-6	Jejunum	Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 10-6			
Kidney		Hemorrhage	Marked
Note: AN ISLAND OF MALIGNANT LYMPHOMA MIXED TYPE WAS NOTED IN			
Note: THE PERIPELVIC FAT SURROUNDING THE URETER.			
Note: OF THE KIDNEY PROPER PROBABLY IN THE AREA OF THE PELVIS.			
Note: THE HEMORRHAGE ASSOCIATED WITH THIS KIDNEY WAS OUTSIDE			
Note: HEMORRHAGE TGLs = 15-3.1			
Liver		Hepatocellular Adenoma	Multiple
Note: HEPATOCLR ADEN TGLs = 12,23,24-2+2.1		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 12,23,24,25,26-2+2.1+2.2			
Lung		Lymphoma Malignant Mixed	
Lymph Node	Axillary	Lymphoma Malignant Mixed	
	Inguinal	Lymphoma Malignant Mixed	
	Mandibular	Lymphoma Malignant Mixed	
	Mediastinal	Lymphoma Malignant Mixed	

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

<b>ANIMAL ID:</b> 487	<b>TRT#:</b> 9	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 50,000 PPM FEM	<b>DISP:</b> Dead	<b>HISTO:</b> 870617

ORGAN AND ACCOUNTABLE SITE STATUS

Mesenteric		Lymphoma Malignant Mixed	
Pancreatic		Lymphoma Malignant Mixed	
Renal		Lymphoma Malignant Mixed	
<p>Note: LYMPH MAL MIXD TGLs = 9-5+5.1</p> <p>Note: AN INGUINAL LYMPH NODE (SEE SLIDE 3 SKIN).</p> <p>Note: LYMPH MAL MIXD TGLs = 3-9</p> <p>Note: LYMPH MAL MIXD TGLs = 11-5.1</p> <p>Note: LYMPH MAL MIXD TGLs = 4,22-3+10</p> <p>Note: LYMPH MAL MIXD TGLs = 13-11</p> <p>Note: WHAT APPEARED TO BE A MAMMARY MASS TO THE PROSECTOR</p> <p>Note: TURNED OUT TO BE A MALIGNANT LYMPHOMA MIXED TYPE IN</p> <p>[ Lymphoma Malignant Mixed TGLS = 17-5 ]</p> <p>[ Lymphoma Malignant Mixed TGLS = 2-5 ]</p>			
Ovary		Cyst	Mild
		Lymphoma Malignant Mixed	
Note: CYST TGLs = 8-4			
Pancreas		Lymphoma Malignant Mixed	
Salivary Glands	Submandibul GI	Lymphoma Malignant Mixed	
Spleen		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 5-3			
Stomach	Forestomach	Squamous Cell Papilloma	
Note: PAPILLOMA SQUA TGLs = 27-3.2			
Thymus		Lymphoma Malignant Mixed	
Note: LYMPH MAL MIXD TGLs = 16-5			
Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 20-5			
Urinary Bladder		Lymphoma Malignant Mixed	
Uterus	Endometrium	Hyperplasia	Minimal
Note: HYPERPLASIA TGLs = 7-4			
PRIMARY CAUSE OF DEATH	-		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:56  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 488

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 453

**DOSE:** 50,000 PPM FEM

**DISP:** Interval Sacrifice

**HISTO:** 853397

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Esophagus	Heart
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Mammary Gland	Nose	Ovary
Pancreas	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Clitoral Gland		Cyst	Multiple, Mild
Note: CYST	TGLs = 2-7		
Gallbladder		Inflammation	Chronic, Minimal
Intestine Large	Cecum, Epithelium	Pigmentation	Minimal
	Colon, Epithelium	Pigmentation	Minimal
Note: PIGMENT	TGLs = 6-6		
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Note: PIGMENT	TGLs = 5-6		
Kidney		Inflammation	Chronic, Mild
Liver		Inflammation	Chronic, Minimal
Lymph Node	Mesenteric	Infiltration Cellular	Histiocyte, Minimal
	Mesenteric	Pigmentation	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Epithelium, Glandular	Pigmentation	Minimal
Uterus	Endometrium	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Turmeric, oleoresin (curcumin)  
CAS Number: 8024-37-1

Date Report Requested: 10/19/2014  
Time Report Requested: 11:23:56  
First Dose M/F: NA / NA  
Lab: TSI MASON

ANIMAL ID: 489

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870618

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Gallbladder	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Pituitary Gland
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Mild
Clitoral Gland	Duct	Dilatation	Mild
Note: DILATATION TGLs = 3-9			
Kidney		Inflammation	Chronic, Mild
Liver		Inflammation	Chronic Active, Minimal
Ovary		Cyst	Moderate
[ Cyst TGLS = 6-4.1 ]			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Thyroid Gland		Inflammation	Chronic Active, Minimal
		Ultimobranchial Cyst	
Uterus		Angiectasis	Moderate
	Endometrium	Hyperplasia	Mild
		Thrombosis	Moderate

Note: MATERIAL.

Note: IAR VASCULAR LESION WHICH CONTAINED THROMBOTIC

Note: IN A FOCAL AREA OF THE MYOMETRIUM THERE WAS A PECUL=

Note: THROMBUS TGLs = 4-4.1

Note: HYPERPLASIA TGLs = 5-4+4.1

Note: ANGIECTASIS TGLs = 4-4.1

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Turmeric, oleoresin (curcumin)

**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014

**Time Report Requested:** 11:23:56

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 489

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 50,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870618

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 490

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870619

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Nose  
Spleen  
Thyroid Gland

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Ovary  
Stomach - Forestomach  
Trachea

Bone  
Heart  
Intestine Small - Duodenum  
Lymph Node - Mesenteric  
Pancreas  
Stomach - Glandular  
Urinary Bladder

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Mammary Gland  
Skin  
Thymus

MISSING

Parathyroid Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Minimal
Liver		Hepatocellular Adenoma	Multiple
		Inflammation	Chronic Active, Minimal
[ Hepatocellular Adenoma TGLS = 1,4-2 ]			
Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 2-1 ]			
Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-7.1 ]			
Salivary Glands	Sublingual GI	Inflammation	Chronic, Minimal
	Submandibular GI	Inflammation	Chronic, Minimal
Uterus		Hydrometra	Minimal
	Endometrium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 491

TRT#: 9

SEX: Female

DAY ON TEST: 450

DOSE: 50,000 PPM FEM

DISP: Interval Sacrifice

HISTO: 853400

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Gallbladder	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Parathyroid Gland	Skin	Spleen
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea

MISSING

Pituitary Gland

OBSERVATIONS

Brain	Thalamus	Mineralization	Minimal
Heart		Cardiomyopathy	Minimal
Intestine Large	Cecum, Epithelium	Pigmentation	Minimal
Intestine Small	Epithelium, Ileum	Pigmentation	Minimal
Kidney		Inflammation	Chronic, Mild
Pancreas		Inflammation	Chronic, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Mild
Stomach	Epithelium, Glandular	Pigmentation	Minimal
Note: PIGMENT	TGLs = 4-3		
Urinary Bladder		Inflammation	Chronic, Minimal
Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Moderate
Note: HYDROMETRA	TGLs = 2-4.1		
Note: HYPERPLASIA	TGLs = 2,3-4.1		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 492

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870620

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Esophagus	Gallbladder	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Skin	Spleen	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Parathyroid Gland
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OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Kidney		Inflammation	Chronic, Mild
Liver		Inflammation	Chronic Active, Minimal
Ovary		Cyst	Mild
		Luteoma	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-7			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Stomach	Forestomach	Acanthosis	Minimal
	Forestomach	Hyperkeratosis	Minimal
	Forestomach	Inflammation	Chronic Active, Minimal
Note: INFLAMMATION TGLs = 4-3.1			
Note: HYPERKERATOSIS TGLs = 4-3.1			
Note: ACANTHOSIS TGLs = 4-3.1			
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 493

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Eye	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Harderian Gland		Adenoma	
[ Adenoma TGLS = 3-9 ]			
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
		Inflammation	Chronic Active, Minimal
[ Clear Cell Focus TGLS = 4,5-2 ]			
Nose		Inflammation	Acute, Minimal
Ovary		Cyst	Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05084-02

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

Date Report Requested: 10/19/2014

Time Report Requested: 11:23:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 494

TRT#: 9

SEX: Female

DAY ON TEST: 730

DOSE: 50,000 PPM FEM

DISP: Terminal Sacrifice

HISTO: 870622

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Esophagus	Gallbladder
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Ovary
Pancreas	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

INSUFFICIENT TISSUE

Adrenal Gland - Medulla

OBSERVATIONS

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Clitoral Gland	Duct	Dilatation	Minimal
		Pigmentation	Minimal
[ Pigmentation TGLS = 2-9 ]			
Kidney		Inflammation	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Inflammation	Chronic Active, Minimal
Note: EOSIN FOCUS	TGLs = 5-2		
Nose		Inflammation	Acute, Minimal
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus	Endometrium	Hyperplasia	Minimal
Note: HYPERPLASIA	TGLs = 3-4		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05084-02  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Turmeric, oleoresin (curcumin)  
**CAS Number:** 8024-37-1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 11:23:56  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

**ANIMAL ID:** 495

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 50,000 PPM FEM

**DISP:** Terminal Sacrifice

**HISTO:** 870623

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Gallbladder	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Pituitary Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Bone Marrow	Sternal	Myelofibrosis	Minimal
Brain	Thalamus	Mineralization	Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Inflammation	Chronic, Minimal
Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
Note: HEPATOCLR ADEN TGLs = 3-2			
Ovary		Cyst	Mild
Note: CYST TGLs = 2-4			
Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Minimal

[ Hydrometra TGLS = 1-4 ]

PRIMARY CAUSE OF DEATH

-

**\*\* END OF REPORT \*\***

\* PROTOCOL REQUIRED TISSUE