

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

C Number:	C61290
Lock Date:	Not Entered.
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	08/16/1989

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 680

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 5-2]			
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 6-3.1]			
Nose		Inflammation	Acute, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2,3-8,8.1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 680

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Salivary Glands
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Zymbal's Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Skin
Thymus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Preputial Gland
Spleen
Trachea

OBSERVATIONS

Heart
Kidney
Liver

Note: ANOM HEPAT LOB TGLs = 5-3.1
Lung
Lymph Node
Prostate
Testes

Note: ADENOMA TGLs = 1,2-8
Note: ATROPHY TGLs = 3-8.1
Thyroid Gland

Mesenteric

Interstitial Cell

Cardiomyopathy
Nephropathy
Hepatodiaphragmatic Nodule
Vacuolization Cytoplasmic

Hyperplasia
Hyperplasia
Hyperplasia
Adenoma
Atrophy

Adenoma

Chronic, Mild
Chronic, Moderate

Multifocal, Mild

Lymphoid, Mild
Reticulum Cell, Moderate
Glandular, Focal, Minimal

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 680

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Thymus
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Spleen
Thyroid Gland

OBSERVATIONS

Heart
Kidney
Liver

Lung
Preputial Gland
Prostate
Testes

Bile Duct

Bilateral, Interstit Cell

Cardiomyopathy
Nephropathy
Basophilic Focus
Hyperplasia
Hyperplasia
Ectasia
Hyperplasia
Adenoma

Chronic, Mild
Chronic, Moderate
Minimal
Mild
Lymphoid, Mild
Moderate
Glandular, Focal, Mild

Note: ADENOMA TGLs = 1,2,3-8,8.1

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 680

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Multifocal, Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Eye		Cataract	Marked
	Retina	Degeneration	Marked
		Synechia	Marked
Note: CATARACT	TGLs = 1-13		
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Lung		Hyperplasia	Lymphoid, Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-3		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-8,8.1		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 680

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Regeneration	Multifocal, Moderate
Note: ML IS STAGE 3..			
Note: REGENERATION TGLs = 8-3.1			
Lung		Hyperplasia	Lymphoid, Mild
		Leukemia Mononuclear	
Prostate		Hyperplasia	Glandular, Multifocal, Mild
Skin		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 9-13			
Spleen		Hemorrhage	Marked
		Leukemia Mononuclear	
		Necrosis	Multifocal, Marked
Note: NECROSIS TGLs = 4,6-3			
Note: HEMORRHAGE TGLs = 7-3.2			
[Necrosis TGLs = 5-3]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1,2,3-8,8.1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 680

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 680

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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 - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Pituitary Gland Thymus

OBSERVATIONS

Adrenal Gland Note: PHEOCHROM BGN TGLs = 4-2	Bilateral, Medulla	Pheochromocytoma Benign	
Kidney Note: NEPHROPATHY TGLs = 3-5		Nephropathy	Chronic, Moderate
Liver Note: ML IS STAGE 2.. Note: NECROSIS TGLs = 5-3.1		Basophilic Focus Leukemia Mononuclear Necrosis	Mild Coagulative, Moderate
Lung Preputial Gland		Hyperplasia Atrophy	Lymphoid, Mild Moderate
Prostate		Hyperplasia	Glandular, Focal, Minimal
Spleen		Leukemia Mononuclear	
Testes Note: ADENOMA TGLs = 1-8,8.1	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 27	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Dead	DAY ON TEST: 493 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Islets, Pancreatic	Kidney	Lymph Node - Mandibular	Nose
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Zymbal's Gland	

MISSING

Mammary Gland	Preputial Gland	Seminal Vesicle	
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AUTO PRECLUDES DIAG.

Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Pancreas
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OBSERVATIONS

Brain Note: LEUKEMIA MONUC TGLs = 6,7-1		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Liver Note: LEUKEMIA MONUC TGLs = 2-3.1		Leukemia Mononuclear	
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mediastinal Mesenteric	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Spleen Note: LEUKEMIA MONUC TGLs = 3-3			
Testes Note: ADENOMA TGLs = 4-8	Interstit Cell	Adenoma	
Urinary Bladder Note: HEMORRHAGE TGLs = 5-8.2		Hemorrhage	Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 28	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 680 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Basophilic Focus	Minimal
Lung		Hyperplasia	Lymphoid, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-8,8.1		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 680

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart	Atrium	Thrombosis	
[Thrombosis TGLS = 7,8-3]			
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Minimal
		Mixed Cell Focus	Minimal
		Necrosis	Coagulative, Marked
[Necrosis TGLS = 5-3.1]			
Lung		Hyperplasia	Lymphoid, Mild
Pancreas		Atrophy	Mild
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 1-8.2			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2,3-8,8.1			
Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 6-2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Salivary Glands
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pituitary Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Preputial Gland
Skin
Thymus
Zymbal's Gland

Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Prostate
Spleen
Thyroid Gland

OBSERVATIONS

Adrenal Gland
Kidney
Note: NEPHROPATHY TGLs = 3-5

Medulla

Pheochromocytoma Benign
Nephropathy

Chronic, Moderate

Liver
Lung
Lymph Node
Pancreas
Testes
Note: ADENOMA TGLs = 1,2-8,8.1

Mesenteric

Basophilic Focus
Hyperplasia
Hyperplasia
Atrophy
Adenoma

Minimal
Lymphoid, Mild
Reticulum Cell, Mild
Mild

Bilateral, Interstit Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 31	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 681 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
[Leukemia Mononuclear TGLS = 6-3.1]			
Lung		Leukemia Mononuclear	
Pancreas		Atrophy	Mild
Preputial Gland		Adenoma	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4,5-3,3.2]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1,2-8,8.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 32 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 589
DOSE: CONTROL **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
	Renal Tubule	Pigmentation	Marked
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC TGLs = 7,8-3.1			
Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
Note: ALV BRON ADEN TGLs = 9-4.1			
Pituitary Gland		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-3			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3,4-8,8.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 33	TRT#: 1	SEX: Male	DAY ON TEST: 681
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
Lung		Hyperplasia	Lymphoid, Mild
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 2-13		
Nose		Fungus	Moderate
		Inflammation	Acute, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-8,8.1		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 34	TRT#: 1	SEX: Male	DAY ON TEST: 333
	DOSE: CONTROL	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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	Kidney	Lymph Node - Mandibular
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Liver	Bile Duct	Hyperplasia	Mild
Lung		Congestion	Moderate
Note: CONGESTION	TGLs = 5-4,4.1		
Lymph Node	Mesenteric	Hemorrhage	Mild
Nose		Fungus	Marked
		Inflammation	Acute, Moderate
Preputial Gland		Atrophy	Marked
		Ectasia	Marked
Spleen		Atrophy	Marked
[Atrophy TGLS = 3-3]			
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 35

TRT#: 1
DOSE: CONTROL

SEX: Male
DISP: Moribund

DAY ON TEST: 659
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Mammary Gland
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Stomach - Forestomach	Stomach - Glandular	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Hemorrhage	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-7			
Nose		Fungus	Moderate
		Inflammation	Acute, Moderate
Pancreas		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-6.1			
Preputial Gland		Atrophy	Moderate
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-3			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-8,8.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Skin
Thymus
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Prostate
Spleen
Thyroid Gland

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Clear Cell Focus
Hepatodiaphragmatic Nodule

Chronic, Mild
Chronic, Mild
Minimal
Minimal

Note: ANOM HEPAT LOB TGLs = 4-3.1

Lung
Pancreas
Preputial Gland

Hyperplasia
Atrophy
Ectasia
Hyperplasia
Adenoma

Lymphoid, Mild
Mild
Moderate
Squamous, Focal, Moderate

Testes Bilateral, Interstit Cell

Note: ADENOMA TGLs = 1,2-8,8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Minimal
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
Lung		Alveolar/Bronchiolar Adenoma	Multiple
Note: ALV BRON ADEN TGLs = 4-4,4.1			
Preputial Gland		Ectasia	Moderate
Prostate		Hyperplasia	Glandular, Multifocal, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1,2-8,8.1			
Zymbals GI			
Note: ONE GLAND IS PRESENT..			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Thymus
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Prostate
Spleen
Thyroid Gland

OBSERVATIONS

Heart
Kidney
Liver

Note: ANOM HEPAT LOB TGLs = 5-3.1
Lung
Pituitary Gland
[Adenoma TGLS = 6-2]
Preputial Gland

Note: CARCINOMA TGLs = 1-8.2,13
Testes
Note: ADENOMA TGLs = 2,3-8,8.1

Cardiomyopathy
Nephropathy
Basophilic Focus
Hepatodiaphragmatic Nodule

Hyperplasia
Adenoma

Carcinoma
Hyperplasia
Hyperplasia

Adenoma

Chronic, Mild
Chronic, Mild
Minimal

Lymphoid, Mild

Focal, Moderate
Squamous, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 637

DOSE: CONTROL

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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 - Mandibular	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Thymus

AUTO PRECLUDES DIAG.

Bone Marrow

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Kidney		Nephropathy	Chronic, Minimal
Liver	Centrilobular	Necrosis	Diffuse, Mild
Lung		Congestion	Moderate
		Hyperplasia	Lymphoid, Mild
Note: CONGESTION TGLs = 2-4,4.1			
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Mild
Nose		Fungus	
		Inflammation	Acute, Moderate
		Inflammation	Acute, Mild
Preputial Gland		Atrophy	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 565

DOSE: CONTROL

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver	Centrilobular	Degeneration	Diffuse, Mild
		Pigmentation	Minimal
Lung		Hyperplasia	Lymphoid, Mild
Nose		Fungus	Moderate
		Inflammation	Acute, Moderate
Preputial Gland	Bilateral	Adenoma	
Note: ADENOMA	TGLs = 1-8.4		
Prostate		Inflammation	Chronic Active, Mild
Seminal Vesicle		Inflammation	Chronic Active, Marked
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-8,8.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
Lung		Hyperplasia	Lymphoid, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1,2-8,8.1		
Zymbal's Gland		Ectasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 42	TRT#: 1	SEX: Male	DAY ON TEST: 681
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 4-5		
Liver		Basophilic Focus	Minimal
Lung		Hyperplasia	Lymphoid, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-2]			
Prostate		Inflammation	Chronic, Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1,2-8,8.1		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 4-2]			
Heart		Cardiomyopathy	Chronic, Marked
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
[Leukemia Mononuclear TGLS = 7,8-3.1]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-6.1			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-2]			
Preputial Gland		Granuloma	Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-3]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1,2-8,8.1			
Zymbals GI			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ONE GLAND IS PRESENT..

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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 - Mandibular	Mammary Gland
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB	TGLs = 4-3.1		
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Nose		Fungus	
		Inflammation	Acute, Moderate
Pancreas		Atrophy	Minimal
Preputial Gland		Atrophy	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1,2-8,8.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-3.1		
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-4,4.1		
Lymph Node			
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6.1		
Note: LEUKEMIA MONUC	TGLs = 8-13		
Pancreas		Accessory Spleen	
Note: ACCESSORY SPLN	TGLs = 4-6		
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
Testes		Bilateral, Interstit Cell	Adenoma
Note: ADENOMA	TGLs = 1,2-8,8.1		
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 501

DOSE: CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Skin
Thymus

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

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Trachea

MISSING

Seminal Vesicle

OBSERVATIONS

Heart
Kidney

Note: CYST TGLs = 3-5
Liver

Lung
Mesentery
Note: NECROSIS TGLs = 2-13
Preputial Gland
Prostate
Testes

Note: ADENOMA TGLs = 1-8
Zymbal's Gland

Note: CARCINOMA TGLs = 4-10.1

Cortex

Bile Duct

Fat

Interstit Cell
Interstit Cell

Cardiomyopathy
Cyst
Nephropathy

Granuloma
Hyperplasia
Hyperplasia
Necrosis

Atrophy
Inflammation
Adenoma
Hyperplasia

Carcinoma
Ectasia

Chronic, Mild
Marked
Chronic, Minimal

Mild
Mild
Lymphoid, Mild
Moderate

Moderate
Chronic Active, Mild

Minimal

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Preputial Gland
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Liver
Nose
Prostate
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pituitary Gland
Seminal Vesicle
Thymus
Zymbal's Gland

MISSING

Parathyroid Gland

OBSERVATIONS

Heart
Kidney
Lung
Skin
Note: KERATOACANTHMA TGLs = 1-13
Testes
Note: ADENOMA TGLs = 2,3-8,8.1

Cardiomyopathy
Nephropathy
Hyperplasia
Keratoacanthoma
Bilateral, Interstit Cell
Adenoma

Chronic, Mild
Chronic, Mild
Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 48 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 681
DOSE: CONTROL **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Moderate
	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB TGLs = 8-3.1			
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 7-7			
Mesentery		Inflammation	Chronic, Diffuse, Moderate
Note: INFLAMMATION TGLs = 4-14			
Preputial Gland		Atrophy	Moderate
Skin		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 1-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-8,8.1			
Thyroid Gland	Bilateral, C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 50	TRT#: 1	SEX: Male	DAY ON TEST: 681
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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 - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Kidney		Leukemia Mononuclear Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-5			
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC TGLs = 6-3.1			
Lung		Hyperplasia Leukemia Mononuclear	Lymphoid, Moderate
Nose		Fungus Inflammation	Mild Acute, Moderate
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 5-13			
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1,2-8,8.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 51

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Seminal Vesicle
Thymus
Zymbal's Gland

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

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Preputial Gland
Stomach - Forestomach
Trachea

Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Adrenal Gland
Heart
Kidney
Liver
Lung
Nose
Prostate
Skin
Note: HEMORRHAGE TGLs = 1-13
Testes
Note: ADENOMA TGLs = 2,3-8,8.1

Cortex

Bilateral, Interstit Cell

Hypertrophy
Cardiomyopathy
Nephropathy
Basophilic Focus
Hyperplasia
Inflammation
Hyperplasia
Hemorrhage

Adenoma

Focal, Minimal
Chronic, Mild
Chronic, Moderate
Minimal
Lymphoid, Mild
Acute, Moderate
Glandular, Focal, Mild
Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 52 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 681
DOSE: CONTROL **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Minimal
		Leukemia Mononuclear	
Note: ML IS STAGE 2..			
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 5-13		
Nose		Fungus	Marked
		Hyperplasia	Glandular, Moderate
		Inflammation	Acute, Moderate
Preputial Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-8.2		
Prostate		Hyperplasia	Glandular, Focal, Minimal
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2,3-8,8.1		
Trachea		Inflammation	Chronic, Moderate
		Necrosis	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 53

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Preputial Gland
Stomach - Forestomach
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Glandular

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Thymus

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Spleen
Urinary Bladder

OBSERVATIONS

Islets, Pancreatic
Kidney
Liver
Lung
Mesentery
Note: NECROSIS TGLs = 5-15
Prostate
Skin
Note: HYPERPLASIA TGLs = 1-13
Note: BASAL CEL ADEN TGLs = 2-14
Testes
Note: ADENOMA TGLs = 3-8,8.1
Thyroid Gland
Trachea

Fat

Hair Follicle

Bilateral, Interstit Cell

C Cell

Adenoma
Nephropathy
Basophilic Focus
Hyperplasia
Necrosis
Hyperplasia
Basal Cell Adenoma
Hyperplasia

Adenoma

Adenoma
Inflammation
Necrosis

Chronic, Mild
Minimal
Lymphoid, Mild
Moderate
Glandular, Focal, Minimal
Basal Cell, Focal, Mild

Acute, Moderate
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 54

TRT#: 1

SEX: Male

DAY ON TEST: 663

DOSE: CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Zymbal's Gland		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Myelofibrosis	Marked
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7,8-3.1		
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-7		
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 5-13		
Pancreas		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-6.1,14		
Pituitary Gland		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 54	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund	DAY ON TEST: 663 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 3,4-8,8.1
Thymus
Note: LEUKEMIA MONUC TGLs = 10-9
Urinary Bladder

Transit Epithe

Leukemia Mononuclear
Leukemia Mononuclear
Hyperplasia
Leukemia Mononuclear

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 55

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Prostate
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Salivary Glands
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Preputial Gland
Skin
Thymus
Zymbal's Gland

OBSERVATIONS

Bone
Note: OSTEOPETROSIS TGLs = 1-13
Heart
Kidney
Liver
Lung
Lymph Node
Testes
Note: ADENOMA TGLs = 2,3-8,8.1

Carpal

Mesenteric
Bilateral, Interstit Cell

Osteopetrosis

Cardiomyopathy
Nephropathy
Basophilic Focus
Hyperplasia
Hyperplasia
Adenoma

Moderate

Chronic, Mild
Chronic, Moderate
Minimal
Lymphoid, Mild
Reticulum Cell, Moderate

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 56

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Minimal
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 5-5		
Liver		Basophilic Focus	Mild
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
Preputial Gland		Ectasia	Moderate
Note: ECTASIA	TGLs = 1-8.2		
Testes	Interstit Cell	Adenoma	
		Atrophy	Marked
Note: ADENOMA	TGLs = 2-8		
Note: ATROPHY	TGLs = 3-8.1		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 57

TRT#: 1

SEX: Male

DAY ON TEST: 642

DOSE: CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Zymbal's Gland			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear
	Medulla	Leukemia Mononuclear
Bone Marrow		Leukemia Mononuclear
Heart		Leukemia Mononuclear
Kidney		Leukemia Mononuclear
Note: LEUKEMIA MONUC	TGLs = 9-5	
Liver		Leukemia Mononuclear
Note: ML IS STAGE 3..		
Note: LEUKEMIA MONUC	TGLs = 8-3.1	
Lung		Leukemia Mononuclear
Lymph Node	Axillary	Leukemia Mononuclear
	Iliac	Leukemia Mononuclear
	Mandibular	Leukemia Mononuclear
	Mediastinal	Leukemia Mononuclear
	Mesenteric	Leukemia Mononuclear
	Pancreatic	Leukemia Mononuclear
	Renal	Leukemia Mononuclear
Note: LEUKEMIA MONUC	TGLs = 3,4,5,6-13,9,14,15	
Note: LEUKEMIA MONUC	TGLs = 7,10,13,14-16,17,7,18	
Pituitary Gland		Leukemia Mononuclear
Preputial Gland		Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 57

TRT#: 1

SEX: Male

DAY ON TEST: 642

DOSE: CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Leukemia Mononuclear	
Seminal Vesicle		Inflammation	Chronic Active, Moderate
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 11,12-3.2		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-8.1		
Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 58	TRT#: 1	SEX: Male	DAY ON TEST: 558
	DOSE: CONTROL	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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	Liver	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Lung		Congestion	Marked
		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 3-4,4.1]			
Nose		Fungus	Marked
		Hyperkeratosis	Marked
		Inflammation	Acute, Marked
		Metaplasia	Squamous, Marked
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1,2-8,8.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 59

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Thymus
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Prostate
Spleen
Thyroid Gland

Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland
Heart
Kidney
 Note: NEPHROPATHY TGLs = 4-5
Liver
Lung
Pituitary Gland
 Note: ADENOMA TGLs = 5-2
Preputial Gland
 Note: ADENOMA TGLs = 1-8.2
Testes
 Note: ADENOMA TGLs = 2-8,8.1

Medulla

Pars Distalis

Bilateral, Interstit Cell

Hyperplasia
Cardiomyopathy
Nephropathy

Basophilic Focus
Hyperplasia
Adenoma

Adenoma

Adenoma

Multifocal, Minimal
Chronic, Mild
Chronic, Moderate

Minimal
Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 60 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 357
DOSE: CONTROL **DISP:** Dead **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Zymbal's Gland			

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Hydronephrosis	Mild
	Pelvis	Inflammation	Acute, Moderate
Note: HYDRONEPHROSIS TGLs = 9-5			
Lung		Congestion	Moderate
		Hyperplasia	Lymphoid, Mild
Note: CONGESTION TGLs = 8-4,4.1			
Parathyroid Gland		Hyperplasia	Mild
Preputial Gland		Hyperplasia	Focal, Mild
Prostate		Hemorrhage	Marked
		Inflammation	Acute, Moderate
Note: HEMORRHAGE TGLs = 6-8.2			
Seminal Vesicle		Dilatation	Marked
Note: DILATATION TGLs = 3-13			
Spleen		Pigmentation	Moderate
Urinary Bladder		Hemorrhage	Moderate
		Inflammation	Acute, Moderate
Note: HEMORRHAGE TGLs = 1,2-8.2			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 61	TRT#: 1	SEX: Male	DAY ON TEST: 681
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
		Degeneration	Cystic, Focal, Minimal
		Leukemia Mononuclear	
Note: ML IS STAGE 2..			
Nose		Fungus	Mild
		Inflammation	Acute, Minimal
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 1-8.2			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-3			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2,3-8,8.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 62	TRT#: 1	SEX: Male	DAY ON TEST: 681
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	
		Vacuolization Cytoplasmic	Focal, Minimal
Note: ANOM HEPAT LOB TGLs = 3-3.1			
Lung		Hyperplasia	Lymphoid, Minimal
Pancreas	Acinus	Hyperplasia	Focal, Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-8,8.1			
Thyroid Gland	C Cell	Carcinoma	
Zymbals GI			
Note: ONE GLAND IS PRESENT..			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 63

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Heart
Intestine Small - Ileum
Mammary Gland
Preputial Gland
Skin
Thymus
Zymbal's Gland

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Prostate
Spleen
Thyroid Gland

Brain
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Salivary Glands
Stomach - Forestomach
Trachea

Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pituitary Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Adrenal Gland
Epididymis
Intestine Large

Medulla
Cecum

Pheochromocytoma Benign
Mesothelioma Malignant
Necrosis

Metastatic (Testes)
Focal, Marked

Note: CONSIDERED TO DUE TO IP INJECTION OF ANESTHETIC..

Note: NECROSIS TGLs = 5-7

Kidney
Liver
Lung
Lymph Node
Mesentery
Pancreas
Testes

Mesenteric

Nephropathy
Basophilic Focus
Hyperplasia
Hyperplasia
Mesothelioma Malignant
Atrophy
Adenoma
Mesothelioma Malignant

Chronic, Mild
Minimal
Lymphoid, Moderate
Reticulum Cell, Moderate
Metastatic (Testes)

Note: MESOTHELIO MAL TGLs = 3-13

Pancreas

Testes

Bilateral, Interstit Cell
Bilateral

Mild

Note: ADENOMA TGLs = 1,2-8,8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 64

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 3-14		
Nose		Fungus	Moderate
		Hyperkeratosis	Moderate
		Inflammation	Acute, Moderate
Preputial Gland		Adenoma	
Prostate		Hyperplasia	Glandular, Multifocal, Mild
Skin		Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 1-13		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-8,8.1		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 65

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Vacuolization Cytoplasmic	Diffuse, Mild
Lung		Hyperplasia	Lymphoid, Mild
Spleen		Hyperplasia	Reticulum Cell, Focal, Mild
Note: HYPERPLASIA	TGLs = 3-3		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-8,8.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 66 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 681
DOSE: CONTROL **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC TGLs = 7-3.1			
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Pharynx	Palate	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 5-13			
Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 4-2]			
Preputial Gland		Atrophy	Moderate
Prostate		Hyperplasia	Glandular, Focal, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-3			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-8,8.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: C.I. Direct blue 15
 CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
 Time Report Requested: 01:08:04
 First Dose M/F: NA / NA
 Lab: HLA

ANIMAL ID: 67 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 445
DOSE: CONTROL **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Epididymis	Esophagus	Intestine Large - Rectum
Islets, Pancreatic	Mammary Gland	Nose	Parathyroid Gland
Trachea	Zymbal's Gland		

MISSING

Seminal Vesicle	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 15,16-1		
Heart		Cardiomyopathy	Chronic, Minimal
Intestine Large	Cecum	Leukemia Mononuclear	
	Colon	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 17-7		
Intestine Small	Duodenum	Leukemia Mononuclear	
	Ileum	Leukemia Mononuclear	
	Jejunum	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2,3,4-5		
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-3.1		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5,6,8,9,10,12-7,3,2,5,1,9,6		
Pancreas		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 67	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund	DAY ON TEST: 445 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Leukemia Mononuclear	
Salivary Glands		Leukemia Mononuclear	
Skin		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 11-3		
Stomach	Forestomach	Acanthosis	Marked
	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
	Forestomach	Ulcer	Marked
Note: ULCER	TGLs = 14-6		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1,13-8,8.1		
Thyroid Gland	C Cell	Adenoma	
		Leukemia Mononuclear	
Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 68	TRT#: 1	SEX: Male	DAY ON TEST: 681
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder
Zymbal's Gland			

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
Lung		Hyperplasia	Lymphoid, Moderate
Nose		Fungus	Minimal
		Inflammation	Acute, Mild
Pancreas		Atrophy	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-8,8.1		
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 69

TRT#: 1

SEX: Male

DAY ON TEST: 659

DOSE: CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Necrosis	Focal, Minimal
Note: [NECROSIS] TGLs = 3-3.1			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-2			
Preputial Gland		Hyperplasia	Squamous, Focal, Minimal
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN TGLs = 7-13			
Testes	Interstit Cell	Adenoma	
		Atrophy	Marked
Note: ATROPHY TGLs = 1-8.1			
Note: ADENOMA TGLs = 2-8.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 70

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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 - Mandibular	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
		Leukemia Mononuclear	
Note: ML IS STAGE 1			
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Preputial Gland		Atrophy	Moderate
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA	TGLs = 3-13		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-8,8.1		
Zymbal's Gland		Abscess	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 151

TRT#: 3

SEX: Male

DAY ON TEST: 681

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Moderate
		Clear Cell Focus	Mild
		Neoplastic Nodule	
Note: NEOPLASTIC NOD TGLs = 5-3.1			
Lung		Hyperplasia	Lymphoid, Mild
Pancreas		Atrophy	Minimal
Prostate		Hyperplasia	Glandular, Multifocal, Mild
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 1-13			
Spleen		Hyperplasia	Reticulum Cell, Focal, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2,3-8,8.1			
Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 152

TRT#: 3

SEX: Male

DAY ON TEST: 646

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Pituitary Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Note: THROMBUS TGLs = 3-3			
Kidney		Nephropathy	Chronic, Marked
Liver	Centrilobular	Degeneration	Diffuse, Mild
		Neoplastic Nodule	
Note: DEGEN TGLs = 2-3.1			
Seminal Vesicle		Hyperplasia	Glandular, Focal, Mild
Skin		Basal Cell Carcinoma	
Note: BASAL CEL CARC TGLs = 4-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-8,8.1			
Zymbal's Gland		Ectasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 153

TRT#: 3

SEX: Male

DAY ON TEST: 513

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Thymus	Thyroid Gland	Trachea	

OBSERVATIONS

Adrenal Gland	Cortex	Mesothelioma Malignant	Metastatic (Testes)
Epididymis	Bilateral	Mesothelioma Malignant	Metastatic (Testes)
[Mesothelioma Malignant TGLs = 13-8,8.1]			
Kidney		Mesothelioma Malignant	Metastatic (Testes)
		Nephropathy	Chronic, Minimal
	Renal Tubule	Pigmentation	Marked
Liver		Basophilic Focus	Minimal
		Hematopoietic Cell Proliferation	Mild
		Mesothelioma Malignant	Metastatic (Testes)
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mediastinal	Pigmentation	Moderate
Note: PIGMENT	TGLs = 3-9		
Mesentery		Mesothelioma Malignant	Metastatic (Testes)
Note: MESOTHELIO MAL	TGLs = 6-13		
Pancreas		Mesothelioma Malignant	Metastatic (Testes)
Note: MESOTHELIO MAL	TGLs = 11-6		
Preputial Gland		Ectasia	Marked
Note: ECTASIA	TGLs = 7-8.2		
Prostate		Mesothelioma Malignant	Metastatic (Testes)
Seminal Vesicle	Bilateral	Mesothelioma Malignant	Metastatic (Testes)
Spleen		Hematopoietic Cell Proliferation	Moderate
		Mesothelioma Malignant	Metastatic (Testes)
Note: MESOTHELIO MAL	TGLs = 12-3		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 153

TRT#: 3
DOSE: 0.063

SEX: Male
DISP: Moribund

DAY ON TEST: 513
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach, Glandular	Mesothelioma Malignant	Metastatic (Testes)
Testes	Bilateral, Interstit Cell Bilateral	Adenoma Mesothelioma Malignant	
[Adenoma TGLS = 9,10-8,8.1]			
[Mesothelioma Malignant TGLS = 8-14]			
Urinary Bladder		Mesothelioma Malignant	Metastatic (Testes)
Zymbal's Gland		Ectasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 154

TRT#: 3

SEX: Male

DAY ON TEST: 583

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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 - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Mild
Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Hematopoietic Cell Proliferation	Minimal
Note: [HEMA CELL PROL] TGLs = 4,5-3.1,3.2			
Lung		Hyperplasia	Lymphoid, Mild
Nose		Fungus	Moderate
		Hyperkeratosis	Moderate
		Inflammation	Acute, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-8,8.1			
Thyroid Gland	Follicular Cel	Adenoma	
Note: ADENOMA TGLs = 9-2			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 7-10			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 155

TRT#: 3

SEX: Male

DAY ON TEST: 681

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Eye	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	Minimal
		Leukemia Mononuclear	
		Neoplastic Nodule	
Note: ML IS STAGE 3..			
Note: NEOPLASTIC NOD	TGLs = 7-3.1		
Lung		Leukemia Mononuclear	
Nose		Fungus	Mild
		Inflammation	Acute, Mild
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 5-15		
Skin	Sebaceous GI	Adenoma	
	Subcut Tiss	Fibroma	
		Squamous Cell Papilloma	
Note: [SQ CL PAPILOM]	TGLs = 8-13		
Note: FIBROMA	TGLs = 9-14		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 155	TRT#: 3 DOSE: 0.063	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 681 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 10-13		
Spleen			Leukemia Mononuclear
Note: LEUKEMIA MONUC	TGLs = 4-3		
Testes		Bilateral, Interstit Cell	Adenoma
Note: ADENOMA	TGLs = 1-8,8.1		
Thyroid Gland		C Cell	Adenoma
Zymbal's Gland			Ectasia
			Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 156

TRT#: 3

SEX: Male

DAY ON TEST: 681

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
[Cardiomyopathy TGLS = 6-3]			
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 5-5			
Liver		Basophilic Focus	Moderate
		Eosinophilic Focus	Moderate
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: ML IS STAGE 1..			
Lung		Alveolar/Bronchiolar Adenoma	
		Hyperplasia	Lymphoid, Mild
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 7-12,13			
Preputial Gland		Hyperplasia	Squamous, Focal, Mild
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1,2,3-8,8.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 157

TRT#: 3

SEX: Male

DAY ON TEST: 646

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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 - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Prostate	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Brain		Compression	
Note: COMPRESSION	TGLs = 4-1		
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Minimal
		Granuloma	Mild
		Hematopoietic Cell Proliferation	Mild
	Bile Duct	Hyperplasia	Mild
Lung		Hyperplasia	Lymphoid, Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-2]			
Preputial Gland		Ectasia	Moderate
Note: ECTASIA	TGLs = 2-8.2		
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN	TGLs = 1-13		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-8,8.1		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 158

TRT#: 3

SEX: Male

DAY ON TEST: 578

DOSE: 0.063

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC TGLs = 4,5,2-3.1			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Preputial Gland	Bilateral	Carcinoma	
Note: CARCINOMA TGLs = 1-8.4			
Skin		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 7-13			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-3.2			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 6-8,8.1			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 159

TRT#: 3

SEX: Male

DAY ON TEST: 680

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Multifocal, Mild
		Eosinophilic Focus	Minimal
		Leukemia Mononuclear	
Note: ML IS STAGE 1..			
Lung		Hyperplasia	Lymphoid, Mild
Nose		Fungus	Minimal
		Inflammation	Acute, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1,2-8,8.1		
Thyroid Gland	Follicular Cel	Adenoma	
Zymbal's Gland		Adenoma	
		Ectasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 160

TRT#: 3

SEX: Male

DAY ON TEST: 680

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Spleen
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Salivary Glands
Stomach - Glandular
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Seminal Vesicle
Thymus

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Eosinophilic Focus

Chronic, Moderate
Chronic, Mild
Minimal
Mild

Lung
Lymph Node
Nose

Mesenteric

Hyperplasia
Hyperplasia
Fungus
Hyperkeratosis
Inflammation

Lymphoid, Mild
Reticulum Cell, Moderate
Minimal
Moderate
Acute, Moderate

Preputial Gland
Note: ADENOMA TGLs = 2-8.2

Bilateral

Adenoma

Prostate
Skin
Note: BASAL CEL ADEN TGLs = 1-13

Hyperplasia
Basal Cell Adenoma

Glandular, Focal, Mild

Testes
Note: ADENOMA TGLs = 3,4-8,8.1

Bilateral, Interstit Cell

Adenoma

Thyroid Gland
Note: ADENOMA TGLs = 7-2

Follicular Cel

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 161

TRT#: 3

SEX: Male

DAY ON TEST: 619

DOSE: 0.063

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	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	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lung		Carcinoma	Metastatic (Zymbal'S Gland), Multiple (Zymbal'S Gland)
Note: CARCINOMA	TGLs = 3,4-4,4.1		
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Moderate
Preputial Gland		Atrophy	Moderate
Spleen		Atrophy	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1,2-8,8.1		
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 5-10,12		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 162

TRT#: 3

SEX: Male

DAY ON TEST: 680

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Seminal Vesicle
Thymus

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

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Preputial Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Heart
Kidney
 Note: NEPHROPATHY TGLs = 1-5
Liver
Lung
Pancreas
Prostate
Sem Ves
 Note: DECREASED SECRETION..NO DX..
Skin
 Note: CYST EPITH INC TGLs = 4-13
 Note: BASAL CEL ADEN TGLs = 5-13
Testes
 Note: ADENOMA TGLs = 3-8,8.1
Zymbal's Gland

Bilateral, Interstit Cell

Cardiomyopathy
Nephropathy
Degeneration
Eosinophilic Focus
Hyperplasia
Atrophy
Hyperplasia
Basal Cell Adenoma
Cyst Epithelial Inclusion
Adenoma
Ectasia

Chronic, Mild
Chronic, Moderate
Cystic, Focal, Minimal
Minimal
Lymphoid, Mild
Mild
Glandular, Multifocal, Mild
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 163

TRT#: 3

SEX: Male

DAY ON TEST: 316

DOSE: 0.063

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Testes
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Kidney
Mammary Gland
Pituitary Gland
Skin
Thymus
Zymbal's Gland

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

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Prostate
Stomach - Glandular
Trachea

MISSING

Seminal Vesicle

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Lung		Congestion	Marked
		Inflammation	Acute, Marked
Note: CONGESTION	TGLs = 4-4		
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 3-14		
Spleen		Atrophy	Marked
[Atrophy TGLS = 1-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 164

TRT#: 3

SEX: Male

DAY ON TEST: 626

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Multifocal, Minimal
Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Focal, Moderate
		Hematopoietic Cell Proliferation	Minimal
Note: DEGEN	TGLs = 7-3.2		
Lung		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Histiocyte, Mild
Nose		Fungus	Mild
		Hyperkeratosis	Marked
		Metaplasia	Squamous, Marked
Preputial Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-8.2		
Skin		Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 6-13		
Spleen		Hyperplasia	Reticulum Cell, Diffuse, Moderate
Note: HYPERPLASIA	TGLs = 5-3		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3,4-8,8.1		
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 164

TRT#: 3
DOSE: 0.063

SEX: Male
DISP: Moribund

DAY ON TEST: 626
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbals GI
Note: ONE GLAND IS PRESENT..

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 165

TRT#: 3

SEX: Male

DAY ON TEST: 624

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	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
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Hyperplasia	Moderate
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC TGLs = 4,5-3.1			
Lung		Carcinoma	Metastatic (Thyroid Gland)
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-4.1			
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6,8,10,11,12-9,13,2,9,14			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-3.2			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1,2-8,8.1			
Thyroid Gland	C Cell	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 165

TRT#: 3

SEX: Male

DAY ON TEST: 624

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 9-2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 166

TRT#: 3

SEX: Male

DAY ON TEST: 512

DOSE: 0.063

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Thymus

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Kidney
Mammary Gland
Pituitary Gland
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Preputial Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Glandular
Zymbal's Gland

OBSERVATIONS

Bone
Note: OSTEOMA TGLs = 10-13
Heart
Lung
Note: CONGESTION TGLs = 9-4,4.1
Prostate
Seminal Vesicle
Testes
Note: ADENOMA TGLs = 2,3,4-8,8.1
Urinary Bladder
Note: HYPERPLASIA TGLs = 5-8.3
Note: HEMORRHAGE TGLs = 6-8.3

Vertebra
Bilateral, Interstit Cell
Transit Epithe

Osteoma
Cardiomyopathy
Congestion
Inflammation
Hyperplasia
Inflammation
Adenoma
Hemorrhage
Hyperplasia
Chronic, Mild
Moderate
Acute, Marked
Glandular, Diffuse, Moderate
Acute, Moderate
Marked
Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: 0

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 167

TRT#: 3

SEX: Male

DAY ON TEST: 566

DOSE: 0.063

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Kidney		Nephropathy	Chronic, Moderate
Liver		Congestion	Marked
		Degeneration	Cystic, Multifocal, Minimal
	Centrilobular	Necrosis	Diffuse, Moderate
[Congestion TGLS = 6-3.1]			
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mandibular	Hemorrhage	Moderate
	Mediastinal	Hemorrhage	Moderate
	Mesenteric	Hemorrhage	Moderate
Note: HEMORRHAGE TGLs = 1-9			
Note: HEMORRHAGE TGLs = 3-7			
Note: HEMORRHAGE TGLs = 5-14			
Nose		Fungus	Marked
		Inflammation	Acute, Marked
		Metaplasia	Squamous, Mild
		Necrosis	Multifocal, Marked
Preputial Gland		Atrophy	Moderate
Skin	Subcut Tiss	Edema	Moderate
Note: EDEMA TGLs = 2-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 8-8,8.1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 167

TRT#: 3
DOSE: 0.063

SEX: Male
DISP: Dead

DAY ON TEST: 566
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland

Ectasia

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 168

TRT#: 3

SEX: Male

DAY ON TEST: 668

DOSE: 0.063

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	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	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
Liver		Nephropathy	Chronic, Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Marked
Note: LEUKEMIA MONUC	TGLs = 3,4-3.1		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-4,4.1		
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-13		
Nose		Fungus	Mild
		Inflammation	Acute, Marked
		Metaplasia	Squamous, Moderate
Pancreas		Atrophy	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-3.2		
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 168

TRT#: 3
DOSE: 0.063

SEX: Male
DISP: Dead

DAY ON TEST: 668
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 169

TRT#: 3

SEX: Male

DAY ON TEST: 680

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Moderate
	Renal Tubule	Pigmentation	Moderate
Liver		Leukemia Mononuclear	
		Neoplastic Nodule	
Note: LEUKEMIA MONUC	TGLs = 8,10-3.1		
Note: [NEOPLASTIC NOD]	TGLs = 9-3.1		
Note: ML IS STAGE 3..			
Lung		Hyperplasia	Lymphoid, Mild
		Leukemia Mononuclear	
Lymph Node	Axillary	Leukemia Mononuclear	
	Iliac	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 12-9		
Note: LEUKEMIA MONUC	TGLs = 14-9,16		
Note: LEUKEMIA MONUC	TGLs = 4-14		
Note: LEUKEMIA MONUC	TGLs = 13-15		
Mesentery		Mesothelioma Malignant	Metastatic (Testes)
	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 3-13		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 169	TRT#: 3 DOSE: 0.063	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 680 HISTO:
-----------------------	--------------------------------------	-----------------------------------------------------	------------------------------------------

ORGAN AND ACCOUNTABLE SITE STATUS

Pharynx Note: SQ CL PAPILLOM TGLs = 11-17	Palate	Squamous Cell Papilloma	
Preputial Gland Note: ECTASIA TGLs = 5-8.2		Ectasia	Marked
Prostate		Inflammation	Chronic Active, Mild
Spleen [Leukemia Mononuclear TGLS = 7-3]		Leukemia Mononuclear	
Testes Note: ADENOMA TGLs = 2-8,8.1	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant	
Thyroid Gland	C Cell	Adenoma	
Zymbal's Gland		Ectasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 170

TRT#: 3

SEX: Male

DAY ON TEST: 632

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	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
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Bone Marrow		Hyperplasia	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
		Regeneration	Focal, Moderate
Note: REGENERATION TGLs = 4-3.1			
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Nose		Fungus	Mild
		Inflammation	Acute, Moderate
Preputial Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-8.2			
Skin		Basal Cell Adenoma	Multiple
[Basal Cell Adenoma TGLS = 6,7-13,14]			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-3			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2,3-8,8.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 171

TRT#: 3

SEX: Male

DAY ON TEST: 680

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Multifocal, Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Leukemia Mononuclear	
Note: ML IS STAGE 1..			
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 4-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1,2-8,8.1			
Zymbal's Gland		Ectasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 172

TRT#: 3

SEX: Male

DAY ON TEST: 435

DOSE: 0.063

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mandibular
Parathyroid Gland
Skin
Thymus
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Kidney
Lymph Node - Mesenteric
Pituitary Gland
Spleen
Thyroid Gland
Zymbal's Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Mammary Gland
Prostate
Stomach - Forestomach
Tongue

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Pancreas
Salivary Glands
Stomach - Glandular
Trachea

MISSING

Seminal Vesicle

OBSERVATIONS

Heart
Nose

Cardiomyopathy
Fungus
Hyperkeratosis
Inflammation
Atrophy
Hyperplasia

Chronic, Mild
Marked
Marked
Acute, Marked
Moderate
Mild

Preputial Gland
Testes

Interstit Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 173

TRT#: 3

SEX: Male

DAY ON TEST: 646

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart	Atrium	Thrombosis	
Note: THROMBUS	TGLs = 5-3		
Kidney		Nephropathy	Chronic, Moderate
Liver		Eosinophilic Focus	Moderate
		Leukemia Mononuclear	
		Regeneration	Multifocal, Marked
Note: ML IS STAGE 3..			
Note: REGENERATION	TGLs = 3,4-3.1		
Lung		Hyperplasia	Lymphoid, Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Skin		Basal Cell Adenoma	
		Basal Cell Carcinoma	
Note: BASAL CEL CARC	TGLs = 7-14		
Note: BASAL CEL ADEN	TGLs = 6-13		
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 173

TRT#: 3

SEX: Male

DAY ON TEST: 646

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 1,2-8,8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 174

TRT#: 3

SEX: Male

DAY ON TEST: 592

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Seminal Vesicle
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
Lung		Hyperplasia	Lymphoid, Moderate
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 7-13			
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 6-2]			
Preputial Gland		Ectasia	Mild
Note: ECTASIA TGLs = 2-8.2			
Prostate		Hyperplasia	Glandular, Focal, Mild
Skin	Subcut Tiss	Sarcoma	
Note: [SARCOMA] TGLs = 1-10.1			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
Note: ADENOMA TGLs = 4,5-8,8.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 175

TRT#: 3

SEX: Male

DAY ON TEST: 579

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Ascend Colon, Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 10-7.1			
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
		Neoplastic Nodule	
Note: ML IS STAGE 3..			
Note: [NEOPLASTIC NOD] TGLs = 4,11-3.3,3.1			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-4,4.1			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-14			
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 2-13			
Skin	Hair Follicle	Hyperplasia	Basal Cell, Focal, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-3.2			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 12,13,14-8,8.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 176

TRT#: 3

SEX: Male

DAY ON TEST: 620

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney	Renal Tubule	Hyperplasia	Focal, Minimal
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC	TGLs = 11,23-3.1,3.2		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 13-4		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10,15,21-7,15,19		
Mesentery		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-14		
Pancreas		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 22-6		
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 17-17		
Prostate		Hyperplasia	Glandular, Focal, Minimal
Seminal Vesicle		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 176

TRT#: 3
DOSE: 0.063

SEX: Male
DISP: Moribund

DAY ON TEST: 620
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 7-8.3		
Skin			Squamous Cell Papilloma
Note: [SQ CL PAPILOM]	TGLs = 18-18		
Spleen			Leukemia Mononuclear
Note: LEUKEMIA MONUC	TGLs = 19,20-3		
Testes		Bilateral, Interstit Cell	Adenoma
Note: ADENOMA	TGLs = 3,4-8,8.1		
Note: ADENOMA	TGLs = 5-8,8.1		
Zymbal's Gland			Ectasia
			Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 177

TRT#: 3

SEX: Male

DAY ON TEST: 591

DOSE: 0.063

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 3-2]			
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Minimal
	Centrilobular	Leukemia Mononuclear	
		Necrosis	Diffuse, Mild
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC TGLs = 4-3.1			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4,4.1			
Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 6-13			
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-8,8.1			
Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 178

TRT#: 3

SEX: Male

DAY ON TEST: 660

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	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	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
		Regeneration	Focal, Moderate
Note: ML IS STAGE 3..			
Note: REGENERATION TGLs = 7-3.1			
Note: LEUKEMIA MONUC TGLs = 6-3.1			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-4,4.1			
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-13			
Nose		Squamous Cell Carcinoma	
Pancreas		Atrophy	Mild
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 11-15			
Preputial Gland		Adenoma	
		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 178

TRT#: 3
DOSE: 0.063

SEX: Male
DISP: Moribund

DAY ON TEST: 660
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 4-8.2		
Seminal Vesicle		Hyperplasia	Glandular, Multifocal, Mild
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN	TGLs = 10-14		
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-3]			
Testes		Bilateral, Interstit Cell	
Note: ADENOMA	TGLs = 1,2,3-8,8.1	Adenoma	
Zymbal's Gland		Adenoma	
		Ectasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 179

TRT#: 3

SEX: Male

DAY ON TEST: 293

DOSE: 0.063

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Kidney
Nose
Prostate
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Pancreas
Salivary Glands
Testes
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Parathyroid Gland
Skin
Thyroid Gland

MISSING

Seminal Vesicle

OBSERVATIONS

Heart
[Cardiomyopathy TGLS = 1-3]

Cardiomyopathy

Chronic, Mild

Lung
Lymph Node
Preputial Gland
Spleen
Thymus

Mesenteric

Hyperplasia
Atrophy
Atrophy
Atrophy
Atrophy
Congestion

Lymphoid, Minimal
Moderate
Moderate
Moderate
Moderate
Moderate

Note: CONGESTION TGLs = 2-9.2

Tongue
Note: SQUAM CEL CARC TGLs = 5-13

Squamous Cell Carcinoma

Note: DEEP INVASION..

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 180

TRT#: 3

SEX: Male

DAY ON TEST: 578

DOSE: 0.063

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Multifocal, Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-3.1		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Angiectasis	Marked
	Mediastinal	Angiectasis	Marked
	Mesenteric	Angiectasis	Marked
	Pancreatic	Angiectasis	Marked
	Renal	Angiectasis	Marked
	Mesenteric	Hemorrhage	Marked
Note: ANGIECTASIS	TGLs = 9-14		
Note: ANGIECTASIS	TGLs = 7-9		
Note: HEMORRHAGE	TGLs = 4-7		
Note: ANGIECTASIS	TGLs = 13-16		
Note: ANGIECTASIS	TGLs = 12-15		
Note: ANGIECTASIS	TGLs = 6-13		
Note: ILEOCECAL LNN IS CONSIDERED TO BE MESENTERIC NODE..			
Preputial Gland		Atrophy	Moderate
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 11-3.2		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 180

TRT#: 3
DOSE: 0.063

SEX: Male
DISP: Dead

DAY ON TEST: 578
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell	Adenoma Atrophy	Marked
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Note: ADENOMA TGLs = 3-8.1
Note: ATROPHY TGLs = 2-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 181

TRT#: 3

SEX: Male

DAY ON TEST: 646

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Leukemia Mononuclear	
		Regeneration	Multifocal, Moderate
Note: LEUKEMIA MONUC	TGLs = 4-3.1		
Note: REGENERATION	TGLs = 5,6,7,8-3.1		
Lung		Hyperplasia	Lymphoid, Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Pancreas		Atrophy	Mild
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 10-13		
Prostate		Hyperplasia	Glandular, Multifocal, Mild
Skin		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN	TGLs = 11,12,13-14,15,16		
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 181

TRT#: 3
DOSE: 0.063

SEX: Male
DISP: Moribund

DAY ON TEST: 646
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 9-3			
Testes		Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-8			
Thyroid Gland		C Cell	Adenoma	
Zymbal's Gland			Ectasia	Moderate
			Hyperplasia	Squamous, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 182

TRT#: 3

SEX: Male

DAY ON TEST: 544

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Hyperplasia	Moderate
Brain	Cerebellum	Necrosis	Focal, Mild
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Cecum	Inflammation	Acute, Marked
	Cecum	Necrosis	Focal, Moderate
Note: INFLAMMATION TGLs = 10-7			
Kidney	Renal Tubule	Nephropathy	Chronic, Mild
		Pigmentation	Moderate
Note: PIGMENT TGLs = 8-5			
Liver		Infarct	Acute, Marked
		Leukemia Mononuclear	
		Neoplastic Nodule	Multiple
Note: NEOPLASTIC NOD TGLs = 6,11,12,14-3.1,3.3			
Note: INFARCT TGLs = 13-3.3			
Note: LEUKEMIA MONUC TGLs = 5-3.3			
Lung		Hyperplasia	Lymphoid, Mild
		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 4-13			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 182

TRT#: 3
DOSE: 0.063

SEX: Male
DISP: Moribund

DAY ON TEST: 544
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 7-3.2

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 1,2-8,8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 183

TRT#: 3

SEX: Male

DAY ON TEST: 614

DOSE: 0.063

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Trachea	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC	TGLs = 6-3.1		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-4,4.1		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5,7,11-7,13,15		
Prostate		Hyperplasia	Glandular, Focal, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-3		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1,2-8,8.1		
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
Urinary Bladder		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-8.2		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 183

TRT#: 3
DOSE: 0.063

SEX: Male
DISP: Dead

DAY ON TEST: 614
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland

Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 184

TRT#: 3

SEX: Male

DAY ON TEST: 646

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Hyperplasia	Moderate
Brain	Cerebrum	Astrocytoma Malignant	
Note: ASTROCYTO MAL	TGLs = 10-1		
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
		Regeneration	Multifocal, Moderate
Note: REGENERATION	TGLs = 7-3.1		
Note: LEUKEMIA MONUC	TGLs = 8-3.1,3.2		
Note: ML IS STAGE 3..			
Lung		Hyperplasia	Lymphoid, Mild
		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-15		
Skin		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN	TGLs = 1-13		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-3		
Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 184

TRT#: 3
DOSE: 0.063

SEX: Male
DISP: Moribund

DAY ON TEST: 646
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Atrophy

Moderate

Note: ADENOMA TGLs = 5-8
Note: ATROPHY TGLs = 4-8.1

Thyroid Gland C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 185

TRT#: 3

SEX: Male

DAY ON TEST: 421

DOSE: 0.063

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Lymph Node - Mandibular
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Zymbal's Gland		

OBSERVATIONS

Epididymis		Carcinoma	Metastatic (Uncertain Primary Site), Multiple (Uncertain Primary Site)
Note: PRIMARY- SITE IS TISSUE NOS			
Heart		Cardiomyopathy	Chronic, Mild
Intestine Small	Jejunum	Carcinoma	Metastatic (Uncertain Primary Site)
	Jejunum	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 10-6.1			
Note: PRIMARY- SITE IS TISSUE NOS			
Note: META. HAS INFILTR. POLYP..			
Kidney		Carcinoma	Metastatic (Uncertain Primary Site)
Note: PRIMARY- SITE IS TISSUE NOS			
Liver	Centrilobular	Carcinoma	Metastatic (Uncertain Primary Site)
		Necrosis	Diffuse, Marked
Note: PRIMARY- SITE IS TISSUE NOS			
Note: NECROSIS TGLs = 7-3.1,3.2			
[Necrosis TGLS = 8-3.1]			
Lung		Carcinoma	Metastatic (Uncertain Primary Site)
Note: PRIMARY- SITE IS TISSUE NOS			
Lymph Node	Mesenteric	Carcinoma	Metastatic (Uncertain Primary Site)
Note: PRIMARY- SITE IS TISSUE NOS			
Note: CARCINOMA TGLs = 3,5-9,7			
Mesentery		Carcinoma	Metastatic (Uncertain Primary Site)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 185	TRT#: 3	SEX: Male	DAY ON TEST: 421
	DOSE: 0.063	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PRIMARY- SITE IS TISSUE NOS			
Note: CARCINOMA TGLs = 6-7.1			
Seminal Vesicle		Carcinoma	Metastatic (Uncertain Primary Site)
Note: PRIMARY- SITE IS TISSUE NOS			
Note: CARCINOMA TGLs = 11-8.3			
Spleen		Carcinoma	Metastatic (Uncertain Primary Site)
Note: PRIMARY- SITE IS TISSUE NOS			
Stomach	Forestomach	Carcinoma	Metastatic (Uncertain Primary Site)
Note: CARCINOMA TGLs = 13-6			
Note: PRIMARY- SITE IS TISSUE NOS			
Testes	Interstit Cell	Adenoma	
		Carcinoma	Metastatic (Uncertain Primary Site)
Note: PRIMARY- SITE IS TISSUE NOS			
Tissue NOS		Carcinoma	
Note: TISSUE NOS...HIGHLY ANAPLASTIC			
Note: [CARCINOMA] TGLs = 9,14-3.2,6			
Urinary Bladder		Carcinoma	Metastatic (Uncertain Primary Site)
Note: PRIMARY- SITE IS TISSUE NOS			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 237

TRT#: 5

SEX: Male

DAY ON TEST: 323

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	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
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Seminal Vesicle

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Lung		Carcinoma	Metastatic (Zymbal'S Gland)
		Hyperplasia	Lymphoid, Mild
Note: CARCINOMA	TGLs = 4-4,4.1		
Lymph Node		Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA	TGLs = 1-9		
Preputial Gland		Atrophy	Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL	TGLs = 2-3		
Testes		Atrophy	Minimal
Thymus		Atrophy	Mild
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 3-10.1		
Note: POORLY DIFFERENTIATED..			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 238

TRT#: 5

SEX: Male

DAY ON TEST: 402

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Pituitary Gland
Skin
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Prostate
Spleen
Trachea

MISSING

Thymus

OBSERVATIONS

Bone
Lung
Note: CARCINOMA TGLs = 2,3,4,5-4,4.1
Preputial Gland
Testes
Zymbal's Gland
Note: CARCINOMA TGLs = 6-10.1

Cranium
Interstit Cell

Carcinoma
Carcinoma
Atrophy
Hyperplasia
Carcinoma

Metastatic (Zymbal'S Gland)
Metastatic (Zymbal'S Gland), Multiple (Zymbal'S Gland)
Moderate
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 243

TRT#: 5

DOSE: 0.125

SEX: Male

DISP: Dead

DAY ON TEST: 630

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Prostate
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Salivary Glands
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Seminal Vesicle
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Stomach - Glandular
Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Kidney
Liver

Nephropathy
Degeneration
Eosinophilic Focus

Chronic, Mild
Cystic, Multifocal, Moderate
Marked

Note: [EOSIN FOCUS] TGLs = 7,8-3.1

Lung
Lymph Node

Mediastinal

Hyperplasia
Congestion

Lymphoid, Mild
Moderate

Note: CONGESTION TGLs = 14-16

Pharynx

Squamous Cell Carcinoma

Note: SQUAM CEL CARC TGLs = 10-12,15

Preputial Gland

Inflammation

Chronic Active, Moderate

Note: INFLAMMATION TGLs = 3-8.2

Skin

Subcut Tiss

Fibroma
Squamous Cell Carcinoma

Note: FIBROMA TGLs = 1-13

Note: SQUAM CEL CARC TGLs = 2-14

Spleen

Fibrosis

Multifocal, Mild

Note: FIBROSIS TGLs = 12-3

Stomach

Forestomach

Erosion

Multifocal, Moderate

Testes

Bilateral, Interstit Cell

Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 243

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Dead

DAY ON TEST: 630
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 4,5-8,8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 244

TRT#: 5

SEX: Male

DAY ON TEST: 681

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Intest Large			
Note: NODULE IN COLON INVOLVES FAT OF MESOCOLON..			
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-5			
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Moderate
		Leukemia Mononuclear	
		Neoplastic Nodule	
Note: ML IS STAGE 1			
Note: LEUKEMIA MONUC TGLs = 12-3.1			
Note: NEOPLASTIC NOD TGLs = 13-3.1			
Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
		Hyperplasia	Lymphoid, Mild
		Necrosis	Moderate
Mesentery	Fat		
Note: NECROSIS TGLs = 5-6			
Pharynx			
Note: NODULE IN PALATE NOT EVIDENT..			
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Note: [HYPERPLASIA] TGLs = 6-2			
Prostate		Hyperplasia	Glandular, Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 244

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 681
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin		Inflammation Basal Cell Adenoma Squamous Cell Carcinoma Squamous Cell Papilloma	Chronic Active, Moderate Multiple
Note: BASAL CEL ADEN	TGLs = 14-14		
Note: [SQUAM CEL CARC]	TGLs = 9-13		
Note: SQ CL PAPILLOM	TGLs = 8-16		
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1,2-8,8.1		
Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 10-2]			
Zymbals GI			
Note: ONE GLAND IS PRESENT..			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 245

TRT#: 5

SEX: Male

DAY ON TEST: 641

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Epididymis		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear Regeneration	Multifocal, Moderate
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC TGLs = 5,6,7-3.1,3.2 [Leukemia Mononuclear TGLS = 8-3.2]			
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-3.1]			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10,14-14,16			
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 11-5			
Preputial Gland		Ectasia	Moderate
Note: ECTASIA TGLs = 2,3-8.2			
Prostate		Hyperplasia	Glandular, Multifocal, Minimal
Skin		Basal Cell Adenoma	
Note: [BASAL CEL ADEN] TGLs = 1-13			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 245

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Dead

DAY ON TEST: 641
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 12,13-3]		
Testes	Bilateral, Interstit Cell	Adenoma
Note: ADENOMA TGLs = 4-8,8.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 246

TRT#: 5

SEX: Male

DAY ON TEST: 646

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Note: THROMBUS	TGLs = 8-13		
Kidney		Nephropathy	Chronic, Moderate
Liver	Centrilobular	Degeneration	Diffuse, Moderate
Note: DEGEN	TGLs = 7-3.1		
Lung		Hyperplasia	Lymphoid, Mild
Nose		Hyperkeratosis	Marked
		Inflammation	Acute, Moderate
		Metaplasia	Squamous, Moderate
Preputial Gland		Carcinoma	
		Ectasia	Marked
Note: CARCINOMA	TGLs = 5-8.2		
Note: ECTASIA	TGLs = 4-8.2		
Seminal Vesicle		Hyperplasia	Glandular, Diffuse, Moderate
Skin	Sebaceous GI	Adenoma	
		Basal Cell Carcinoma	
	Subcut Tiss	Edema	Moderate
Note: BASAL CEL CARC	TGLs = 1-13		
Note: ADENOMA	TGLs = 3-15		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 246

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Moribund

DAY ON TEST: 646
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: EDEMA TGLs = 10-10

Spleen

Testes

Note: ADENOMA TGLs = 6-8,8.1

Bilateral, Interstit Cell

Hematopoietic Cell Proliferation

Adenoma

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 247

TRT#: 5

SEX: Male

DAY ON TEST: 605

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Nose
Pancreas	Parathyroid Gland	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Multifocal, Mild
	Cortex	Vacuolization Cytoplasmic	Diffuse, Moderate
Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Leukemia Mononuclear	
		Thrombosis	
[Leukemia Mononuclear TGLS = 7-3]			
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Focal, Mild
	Centrilobular	Leukemia Mononuclear	
		Necrosis	Diffuse, Moderate
		Vacuolization Cytoplasmic	Focal, Minimal
Note: NECROSIS TGLs = 6-3.1			
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Mammary Gland		Fibroadenoma	
Note: [FIBROADENOMA] TGLs = 4-14			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-2]			
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 1-8.2			
Skin		Basal Cell Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 247

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Dead

DAY ON TEST: 605
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

		Carcinoma	
		Cyst Epithelial Inclusion	
Note: BASAL CEL ADEN	TGLs = 10,11-16,17		
Note: CARCINOMA	TGLs = 3-13		
Note: CYST EPITH INC	TGLs = 9-15		
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild
Note: ATROPHY	TGLs = 5-8,8.1		
Zymbal's Gland		Ectasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 248

TRT#: 5

SEX: Male

DAY ON TEST: 640

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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 - Mandibular	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Thymus

OBSERVATIONS

Bone Marrow		Hypoplasia	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver	Centrilobular	Degeneration	Diffuse, Marked
		Necrosis	Focal, Mild
		Pigmentation	Mild
		Regeneration	Diffuse, Marked
Note: DEGEN	TGLs = 8,9,10-3.1		
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Nose		Fungus	Marked
		Inflammation	Acute, Marked
Preputial Gland		Ectasia	Moderate
Skin	Hair Follicle	Hyperplasia	Basal Cell, Focal, Marked
Note: HYPERPLASIA	TGLs = 11-13		
Spleen		Hyperplasia	Reticulum Cell, Focal, Moderate
Note: HYPERPLASIA	TGLs = 3-3		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-8,8.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 249

TRT#: 5

SEX: Male

DAY ON TEST: 681

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Ear	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 - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-3.1		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-4,4.1		
Preputial Gland		Adenoma	
Note: ADENOMA	TGLs = 3-8.2		
Prostate		Hyperplasia	Glandular, Focal, Mild
Skin		Basal Cell Adenoma	
		Squamous Cell Carcinoma	
Note: BASAL CEL ADEN	TGLs = 2-14		
Note: SQUAM CEL CARC	TGLs = 1-13		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-3		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4-8,8.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 250

TRT#: 5

DOSE: 0.125

SEX: Male

DISP: Dead

DAY ON TEST: 638

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Mammary Gland
Seminal Vesicle
Thyroid Gland

Adrenal Gland - Medulla
Islets, Pancreatic
Pancreas
Skin
Trachea

Brain
Lung
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Epididymis
Lymph Node - Mesenteric
Salivary Glands
Stomach - Glandular
Zymbal's Gland

MISSING

Lymph Node - Mandibular

Parathyroid Gland

Prostate

Thymus

AUTO PRECLUDES DIAG.

Intestine Large - Cecum
Intestine Small - Ileum

Intestine Large - Colon
Intestine Small - Jejunum

Intestine Large - Rectum

Intestine Small - Duodenum

OBSERVATIONS

Bone Marrow
Heart
Kidney
Liver
Note: LEUKEMIA MONUC TGLs = 8-3.1
Note: ML IS STAGE 2..

Mediastinal

Lymph Node
Note: HEMORRHAGE TGLs = 9-13
Nose

Preputial Gland

Note: ADENOMA TGLs = 2-8.2
Note: ECTASIA TGLs = 1-8.2

Spleen
Note: LEUKEMIA MONUC TGLs = 10-3

Testes
Note: ADENOMA TGLs = 3,4,5-8,8.1

Bilateral, Interstit Cell

Leukemia Mononuclear
Cardiomyopathy
Nephropathy
Leukemia Mononuclear

Hemorrhage

Fungus
Hyperkeratosis
Inflammation

Adenoma
Ectasia

Leukemia Mononuclear

Adenoma

Chronic, Mild
Chronic, Minimal

Marked

Marked
Marked
Acute, Marked

Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 250

TRT#: 5

SEX: Male

DAY ON TEST: 638

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 251

TRT#: 5

SEX: Male

DAY ON TEST: 640

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 5-2]			
Bone Marrow		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 6-5		
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC	TGLs = 11,12,13-3.1		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Ectasia	Moderate
Preputial Gland		Ectasia	Moderate
		Hyperplasia	Squamous, Focal, Moderate
Skin	Sebaceous GI	Adenoma	
		Basal Cell Carcinoma	
	Subcut Tiss	Fibroma	
Note: FIBROMA	TGLs = 17-14		
Note: [ADENOMA]	TGLs = 14-15		
Note: [BASAL CEL CARC]	TGLs = 16-13		
Spleen		Hyperplasia	Reticulum Cell, Multifocal, Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA	TGLs = 8-3		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 251

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Moribund

DAY ON TEST: 640
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 7-3		
Testes		Bilateral, Interstit Cell	Adenoma
Note: ADENOMA	TGLs = 3,4-8,8.1		
Thyroid Gland		Bilateral, C Cell	Carcinoma
[Carcinoma TGLS = 9,10-2]			
Zymbal's Gland			Ectasia
			Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 252

TRT#: 5

SEX: Male

DAY ON TEST: 530

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Kidney
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Seminal Vesicle
Thymus
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Thyroid Gland

OBSERVATIONS

Eye
Note: ATROPHY TGLs = 4-13
Heart
Liver
Lung
Note: CONGESTION TGLs = 3-4,4.1
Pharynx
Note: SQ CL PAPILOM TGLs = 5-14
Preputial Gland
Note: ADENOMA TGLs = 1-8.1
Prostate
Spleen
Testes
Note: ADENOMA TGLs = 2,7-8,8.1

Bile Duct
Palate
Bilateral, Interstit Cell

Atrophy
Cardiomyopathy
Hyperplasia
Congestion
Hyperplasia
Squamous Cell Papilloma
Adenoma
Inflammation
Atrophy
Adenoma
Marked
Chronic, Moderate
Mild
Moderate
Lymphoid, Mild
Chronic Active, Mild
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 253

TRT#: 5

DOSE: 0.125

SEX: Male

DISP: Dead

DAY ON TEST: 534

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
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
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Note: [PHEOCHROM BGN] TGLs = 5-2			
Heart		Cardiomyopathy	Chronic, Mild
Note: ATRIA ARE GREATLY DILATED WITH BLOOD..NO DX..			
Kidney		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Multifocal, Minimal
		Necrosis	Focal, Mild
Lymph Node	Mediastinal	Congestion	Moderate
Note: CONGESTION TGLs = 6-9			
Mesentery		Sarcoma	
Note: OSTEOSARCOMA IS NOT IN DICTIONARY..			
Note: SARCOMA TGLs = 4-13			
Preputial Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-8.2			
Salivary Glands		Schwannoma Malignant	
Note: [SCHWANNOMA MAL] TGLs = 2-9.1			
Note: REMNANT OF THE GLD. ARE SCATTERED THROUGH NEOPLASM..			
Spleen		Atrophy	Moderate
Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 253

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Dead

DAY ON TEST: 534
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 10-8

Interstit Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 254

TRT#: 5

SEX: Male

DAY ON TEST: 629

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Seminal Vesicle
Thymus

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

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Prostate
Stomach - Forestomach
Trachea

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Vacuolization Cytoplasmic

Chronic, Mild
Chronic, Mild
Minimal
Multifocal, Mild

Note: VACUOLIZ CYTO TGLs = 5-3.1
Lung

Congestion
Hyperplasia

Moderate
Lymphoid, Mild

Note: CONGESTION TGLs = 6-4,4.1
Mesentery

Fat

Necrosis

Moderate

Note: NECROSIS TGLs = 9-15

Nose

Inflammation

Acute, Marked

Preputial Gland

Ectasia

Mild

Note: ECTASIA TGLs = 2-8.2

Skin

Basal Cell Adenoma

Note: BASAL CEL ADEN TGLs = 1-13

Note: SEVERE ARTIFACT..NO POSSIBILITY OF WET RECUT..

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 3-8,8.1

Zymbal's Gland

Adenoma

Note: ADENOMA TGLs = 8-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 255

TRT#: 5

SEX: Male

DAY ON TEST: 646

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lymph Node - Mandibular	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Trachea			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Moderate
	Atrium	Thrombosis	
Intestine Large	Colon, Descend Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 7-7.1			
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Moderate
Liver		Eosinophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Mild
Note: EOSIN FOCUS TGLs = 5-3.1			
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILLOM TGLs = 8-14			
Prostate		Schwannoma Malignant	
Note: SCHWANNOMA MAL TGLs = 2,3-8.2,8.4			
Seminal Vesicle		Schwannoma Malignant	Metastatic (Prostate)
Skin		Basal Cell Carcinoma	
Note: BASAL CEL CARC TGLs = 6-13			
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 255

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Moribund

DAY ON TEST: 646
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 1-8.1			
Thyroid Gland		C Cell	Adenoma	
Urinary Bladder			Schwannoma Malignant	Metastatic (Prostate)
Zymbal's Gland			Carcinoma	
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 256

TRT#: 5

SEX: Male

DAY ON TEST: 681

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 4-2]			
Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Pancreas		Atrophy	Mild
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1,2-8,8.1			
Thyroid Gland	Follicular Cel	Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: C.I. Direct blue 15
 CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
 Time Report Requested: 01:08:04
 First Dose M/F: NA / NA
 Lab: HLA

ANIMAL ID: 257

TRT#: 5

SEX: Male

DAY ON TEST: 681

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
[Cardiomyopathy TGLS = 6-3]			
Kidney		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Multifocal, Minimal
		Leukemia Mononuclear	
		Regeneration	Multifocal, Mild
Note: REGENERATION TGLs = 8-3.1			
Note: LEUKEMIA MONUC TGLs = 7-3.1			
Lung		Leukemia Mononuclear	
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 4-12			
Skin		Basal Cell Adenoma	Multiple
	Subcut Tiss	Edema	Marked
Note: EDEMA TGLs = 3-10			
Note: BASAL CEL ADEN TGLs = 9,10,11-13,14,15			
Spleen		Leukemia Mononuclear	
Testes		Atrophy	Marked
Note: ATROPHY TGLs = 1-8,8.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 258

TRT#: 5

SEX: Male

DAY ON TEST: 460

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Mammary Gland	Seminal Vesicle
---------------	-----------------

OBSERVATIONS

Adrenal Gland Note: PHEOCHROM BGN TGLs = 4-2	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Mild
Lung Note: SQUAM CEL CARC TGLs = 6,7-4,4.1		Hyperplasia	Lymphoid, Mild
		Squamous Cell Carcinoma	Metastatic (Skin), Multiple (Skin)
Pharynx Note: SQ CL PAPILLOM TGLs = 11-13	Palate	Squamous Cell Papilloma	
Preputial Gland Note: ECTASIA TGLs = 2-8.2 Note: CARCINOMA TGLs = 1-8.3		Carcinoma	
		Ectasia	Marked
Skin Note: BASAL CEL ADEN TGLs = 8-10.1 Note: SQUAM CEL CARC TGLs = 9-10.2		Basal Cell Adenoma	
		Squamous Cell Carcinoma	
Spleen		Hematopoietic Cell Proliferation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 258

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Moribund

DAY ON TEST: 460
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMA CELL PROL	TGLs = 10-3		
Testes		Bilateral, Interstit Cell	Adenoma
Note: ADENOMA	TGLs = 3-8		
Thyroid Gland		C Cell	Adenoma
		Follicular Cel	Carcinoma
Note: CARCINOMA	TGLs = 5-2		
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 259

TRT#: 5

SEX: Male

DAY ON TEST: 574

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Islets, Pancreatic
Lymph Node - Mesenteric
Pituitary Gland
Zymbal's Gland

Adrenal Gland - Medulla
Kidney
Nose
Skin

Epididymis
Liver
Pancreas
Thyroid Gland

Esophagus
Lymph Node - Mandibular
Parathyroid Gland
Trachea

MISSING

Mammary Gland

Thymus

AUTO PRECLUDES DIAG.

Bone Marrow
Intestine Small - Duodenum

Intestine Large - Cecum
Intestine Small - Ileum

Intestine Large - Colon
Intestine Small - Jejunum

Intestine Large - Rectum

OBSERVATIONS

Brain
Note: ASTROCYTO MAL TGLs = 1-1
Heart
Lung
Note: CONGESTION TGLs = 2-4,4.1
Mesentery
Note: NECROSIS TGLs = 3-13
Preputial Gland
Prostate
Salivary Glands
Seminal Vesicle
Spleen
Stomach
Testes
Note: ADENOMA TGLs = 4-8,8.1
Urinary Bladder
Note: HYPERPLASIA TGLs = 5,6,7-8.4

Cerebrum

Fat

Bilateral

Forestomach
Glandular
Bilateral, Interstit Cell

Astrocytoma Malignant

Cardiomyopathy
Congestion
Hyperplasia

Necrosis

Atrophy
Inflammation
Schwannoma Malignant
Inflammation
Atrophy
Acanthosis
Erosion
Adenoma

Hyperplasia

Chronic, Mild
Marked
Lymphoid, Mild

Moderate

Moderate
Chronic Active, Moderate

Chronic Active, Mild
Marked
Mild
Focal, Mild

Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 259

TRT#: 5

SEX: Male

DAY ON TEST: 574

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 260

TRT#: 5

SEX: Male

DAY ON TEST: 670

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Preputial Gland
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

INSUFFICIENT TISSUE

Pituitary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 6-2]		
Bone Marrow		Hyperplasia	Moderate
Harderian Gland		Inflammation	Chronic, Mild
Note: INFLAMMATION	TGLs = 9-13		
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
		Neoplastic Nodule	
Note: LEUKEMIA MONUC	TGLs = 7-3.1		
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-4,4.1		
Lymph Node	Mandibular	Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 5-9		
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILLOM	TGLs = 11-14		
Prostate		Hyperplasia	Glandular, Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 260

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Moribund

DAY ON TEST: 670
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin Note: [ADENOMA] TGLs = 12-15	Sebaceous Gl	Adenoma
Spleen Note: LEUKEMIA MONUC TGLs = 14-3		Leukemia Mononuclear
Testes Note: ADENOMA TGLs = 3,4-8,8.1	Bilateral, Interstit Cell	Adenoma
Zymbal's Gland Note: CARCINOMA TGLs = 10-10		Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 261

TRT#: 5

SEX: Male

DAY ON TEST: 506

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Lung		Hyperplasia	Lymphoid, Minimal
Preputial Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-8.4		
Spleen		Hematopoietic Cell Proliferation	Mild
Testes		Atrophy	Moderate
		Hyperplasia	Moderate
	Interstit Cell		
Note: ATROPHY	TGLs = 2-8		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 262

TRT#: 5

SEX: Male

DAY ON TEST: 570

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Preputial Gland
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Prostate
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Seminal Vesicle
Thymus

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Congestion

Chronic, Moderate
Chronic, Mild
Mild
Moderate

Note: CONGESTION TGLs = 6-3.1
Lung

Alveolar Epith

Hyperplasia
Hyperplasia
Hyperplasia
Adenoma

Focal, Mild
Lymphoid, Mild
Basal Cell, Focal, Mild

Skin
Testes
Note: ADENOMA TGLs = 2,7-8,8.1

Hair Follicle
Bilateral, Interstit Cell

Hyperplasia

Squamous, Focal, Minimal

Zymbal's Gland
Note: one gland is present

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 263

TRT#: 5

SEX: Male

DAY ON TEST: 679

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Moderate
Heart	Atrium	Cardiomyopathy	Chronic, Moderate
Note: THROMBUS	TGLs = 4-3	Thrombosis	
Kidney		Nephropathy	Chronic, Moderate
Liver	Centrilobular	Degeneration	Cystic, Multifocal, Mild
		Necrosis	Diffuse, Marked
Note: [NECROSIS]	TGLs = 6-3.1	Regeneration	Multifocal, Marked
Note: REGENERATION	TGLs = 6,7-3.1,3.2		
Nose		Inflammation	Acute, Mild
Skin	Sebaceous GI	Adenoma	
		Basal Cell Adenoma	
Note: [ADENOMA]	TGLs = 10-14		
Note: BASAL CEL ADEN	TGLs = 11-15		
Stomach	Glandular	Erosion	Focal, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-8		
Tongue		Squamous Cell Papilloma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 263

TRT#: 5

SEX: Male

DAY ON TEST: 679

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SQ CL PAPILLOM TGLs = 2-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 264

TRT#: 5

SEX: Male

DAY ON TEST: 681

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Skin
Thymus
Zymbal's Gland

Esophagus
Intestine Small - Duodenum
Lung
Nose
Prostate
Spleen
Thyroid Gland

OBSERVATIONS

Adrenal Gland
Note: PHEOCHROM BGN TGLs = 2,3-2

Bilateral, Medulla

Pheochromocytoma Benign

Bone Marrow
Heart
Kidney
Note: NEPHROPATHY TGLs = 4-5

Hyperplasia
Cardiomyopathy
Nephropathy

Mild
Chronic, Moderate
Chronic, Moderate

Liver
Preputial Gland

Basophilic Focus
Eosinophilic Focus
Adenoma

Mild
Minimal

Testes
Note: ADENOMA TGLs = 1-8,8.1

Bilateral, Interstit Cell

Ectasia
Adenoma

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 265

TRT#: 5

SEX: Male

DAY ON TEST: 646

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Preputial Gland

OBSERVATIONS

Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Adenocarcinoma	
Note: [ADENOCARC] TGLs = 1-7.1			
Kidney		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Moderate
Note: ML IS STAGE 3..			
Lung		Hyperplasia	Lymphoid, Marked
		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Pharynx	Palate	Squamous Cell Papilloma	
Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 3-13			
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-8,8.1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 265

TRT#: 5

SEX: Male

DAY ON TEST: 646

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 266

TRT#: 5

SEX: Male

DAY ON TEST: 372

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Kidney
Nose
Prostate
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Thymus
Zymbal's Gland

MISSING

Seminal Vesicle

OBSERVATIONS

Heart
Liver

Cardiomyopathy
Basophilic Focus
Granuloma
Hyperplasia
Hyperplasia
Carcinoma

Chronic, Mild
Minimal
Minimal
Focal, Mild
Lymphoid, Mild

Lung
Preputial Gland
Note: CARCINOMA TGLs = 1-8.3
Testes

Alveolar Epith
Interstit Cell
Interstit Cell

Adenoma
Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 267	TRT#: 5 DOSE: 0.125	SEX: Male DISP: Dead	DAY ON TEST: 637 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Epididymis
Esophagus	Islets, Pancreatic	Kidney	Lung
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Mammary Gland	Seminal Vesicle	Thymus
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AUTO PRECLUDES DIAG.

Bone Marrow	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Lymph Node - Mandibular
Lymph Node - Mesenteric			

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Liver		Necrosis	Multifocal, Moderate
Preputial Gland	Bilateral	Adenoma	
Note: ADENOMA TGLs = 1-8.1			
Skin		Basal Cell Carcinoma	Multiple
Note: BASAL CEL CARC TGLs = 6,7-13,14			
Spleen		Atrophy	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 268

TRT#: 5

SEX: Male

DAY ON TEST: 505

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Skin
Thymus
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Prostate
Spleen
Thyroid Gland

MISSING

Parathyroid Gland

OBSERVATIONS

Heart
Kidney
Liver
 Note: [CONGESTION] TGLs = 4-3
Lung
Mesentery
 Note: NECROSIS TGLs = 2-13
Pharynx
 Note: SQ CL PAPILLOM TGLs = 3-14
Preputial Gland
 Note: ECTASIA TGLs = 1-8.2
Testes

Cardiomyopathy
Nephropathy
Congestion

Hyperplasia
Necrosis

Fat

Palate

Squamous Cell Papilloma

Ectasia

Bilateral, Interstit Cell
Adenoma

Chronic, Mild
Chronic, Mild
Marked

Lymphoid, Mild
Moderate

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 269

TRT#: 5

SEX: Male

DAY ON TEST: 628

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 3-2.1]			
Bone Marrow		Hyperplasia	Moderate
Heart	Atrium	Cardiomyopathy	Chronic, Mild
[Cardiomyopathy TGLS = 8-3]			
Intestine Large	Colon	Adenocarcinoma	
Note: [ADENOCARC] TGLs = 10-7			
Kidney		Nephropathy	Chronic, Moderate
Liver	Centrilobular	Degeneration	Diffuse, Moderate
Note: DEGEN TGLs = 4-3.1			
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
Nose		Fungus	Mild
		Inflammation	Acute, Moderate
Salivary Glands		Edema	Moderate
Note: EDEMA TGLs = 6-9			
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN TGLs = 1-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-8,8.1			
Zymbal's Gland		Ectasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 269

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Dead

DAY ON TEST: 628
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Hyperplasia

Squamous, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 270

TRT#: 5

SEX: Male

DAY ON TEST: 595

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Ear	Epididymis
Esophagus	Eye	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Seminal Vesicle

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Moderate
	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Mild
Liver	Centrilobular	Necrosis	Diffuse, Mild
Note: NECROSIS	TGLs = 3-3.1		
Lung		Hyperplasia	Lymphoid, Mild
Nose		Fungus	Marked
		Inflammation	Acute, Marked
Skin		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN	TGLs = 4,5-13,14		
Spleen		Hematopoietic Cell Proliferation	Moderate
Stomach	Glandular	Erosion	Multifocal, Moderate
Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 271

TRT#: 5

SEX: Male

DAY ON TEST: 626

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	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	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Myelofibrosis	Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Multifocal, Mild
		Leukemia Mononuclear	
		Neoplastic Nodule	
Note: ML IS STAGE 3..			
Note: [NEOPLASTIC NOD] TGLs = 8,9,10,11-3.1,3.2			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-14			
Nose		Fungus	Mild
		Inflammation	Acute, Mild
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILLOM TGLs = 6-13			
Preputial Gland		Atrophy	Moderate
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 271

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Moribund

DAY ON TEST: 626
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 5-3

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 3,4-8,8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 272

TRT#: 5

SEX: Male

DAY ON TEST: 681

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Preputial Gland
Spleen
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Prostate
Stomach - Forestomach
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Glandular

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Seminal Vesicle
Thyroid Gland

MISSING

Thymus

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Clear Cell Focus
Necrosis

Chronic, Mild
Chronic, Moderate
Mild
Mild
Coagulative, Marked

Note: NECROSIS TGLs = 6-3.1

Lung

Alveolar Epith

Hyperplasia
Hyperplasia
Basal Cell Adenoma
Cyst Epithelial Inclusion
Squamous Cell Papilloma

Multifocal, Mild
Lymphoid, Mild

Skin

Note: CYST EPITH INC TGLs = 7-13

Note: BASAL CEL ADEN TGLs = 8-14

Note: SQ CL PAPILOM TGLs = 4-15

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 1,2-8,8.1

Zymbal's Gland

Ectasia
Hyperplasia

Moderate
Squamous, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 272

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 681
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 273

TRT#: 5

SEX: Male

DAY ON TEST: 633

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Bone Marrow		Hyperplasia	Moderate
Kidney		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
		Neoplastic Nodule	
Note: LEUKEMIA MONUC	TGLs = 3-3.1		
Note: [NEOPLASTIC NOD]	TGLs = 4,5-3.2,3.1		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Preputial Gland		Atrophy	Moderate
Skin	Sebaceous GI	Adenoma	
		Squamous Cell Papilloma	Multiple
Note: SQ CL PAPILOM	TGLs = 9-16		
Note: ADENOMA	TGLs = 8-15		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 11-3		
Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild
Note: ATROPHY	TGLs = 1-8		
Note: ADENOMA	TGLs = 2-8.1		
Tongue		Squamous Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 273

TRT#: 5

SEX: Male

DAY ON TEST: 633

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SQUAM CEL CARC TGLs = 10-17

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 274

TRT#: 5

SEX: Male

DAY ON TEST: 632

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Seminal Vesicle
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Thymus
Zymbal's Gland

OBSERVATIONS

Heart
Kidney
Liver
Note: LEUKEMIA MONUC TGLs = 4-3.1
Note: ML IS STAGE 3..

Cardiomyopathy
Nephropathy
Leukemia Mononuclear

Chronic, Mild
Chronic, Mild

Lung
Lymph Node
Preputial Gland
Note: CARCINOMA TGLs = 1-8.2

Mesenteric

Hyperplasia
Leukemia Mononuclear
Hyperplasia
Carcinoma

Lymphoid, Mild
Reticulum Cell, Moderate

Prostate
Skin
Note: SQUAM CEL CARC TGLs = 6-13
Spleen
Note: LEUKEMIA MONUC TGLs = 5-3

Adenoma
Hyperplasia
Squamous Cell Carcinoma

Glandular, Focal, Minimal

Testes
Note: ATROPHY TGLs = 3-8.1
Note: ADENOMA TGLs = 2-8

Interstit Cell

Adenoma
Atrophy

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 275

TRT#: 5

SEX: Male

DAY ON TEST: 680

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Eosinophilic Focus	Mild
		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Nose		Fungus	Mild
		Inflammation	Acute, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Ectasia	Moderate
Prostate		Hyperplasia	Glandular, Focal, Minimal
		Inflammation	Chronic Active, Mild
Skin		Basal Cell Adenoma	Multiple
		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-13			
Note: BASAL CEL ADEN TGLs = 2-14			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-3			
Testes	Interstit Cell	Adenoma	
		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 275

TRT#: 5

SEX: Male

DAY ON TEST: 680

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ATROPHY TGLs = 4-8.1

Note: ADENOMA TGLs = 5-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 276

TRT#: 5

SEX: Male

DAY ON TEST: 617

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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 - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Pituitary Gland

OBSERVATIONS

Bone Marrow		Hyperplasia	Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Clear Cell Focus	Minimal
		Degeneration	Cystic, Multifocal, Minimal
		Eosinophilic Focus	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-3.1			
Note: ML IS STAGE 1..			
Lung		Alveolar/Bronchiolar Adenoma	
		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Histiocyte, Mild
Pancreas		Atrophy	Mild
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 4-12,14			
Skin		Basal Cell Adenoma	
		Squamous Cell Papilloma	
Note: [SQ CL PAPILOM] TGLs = 5,6-15,16			
Note: BASAL CEL ADEN TGLs = 7-17			
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 276

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Moribund

DAY ON TEST: 617
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 1-8,8.1
Zymbal's Gland
Note: ONE GLAND PRESENT..

Hyperplasia

Squamous, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 277

TRT#: 5

SEX: Male

DAY ON TEST: 646

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Zymbal's Gland			

MISSING

Epididymis

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Colon	Adenocarcinoma	
Note: [ADENOCARC] TGLs = 8-7.1			
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Focal, Marked
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
		Neoplastic Nodule	
Note: DEGEN TGLs = 7-3.1			
Note: LEUKEMIA MONUC TGLs = 5-3.1			
Note: ML IS STAGE 2..			
Note: NEOPLASTIC NOD TGLs = 6-3.1			
Lung		Hyperplasia	Lymphoid, Moderate
		Neurofibrosarcoma	Metastatic (Skin), Multiple (Skin)
Lymph Node	Mediastinal	Pigmentation	Moderate
Note: PIGMENT TGLs = 9-13			
Mesentery		Mesothelioma Malignant	Metastatic (Uncertain Primary Site)
Note: PRIMARY- SITE IS SKIN			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 277

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Moribund

DAY ON TEST: 646
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [MESOTHELIO MAL] TGLs = 2-7 Nose		Fungus Inflammation	Moderate Acute, Mild
Pharynx Note: SQ CL PAPILLOM TGLs = 10-14	Palate	Squamous Cell Papilloma	
Prostate		Hyperplasia	Glandular, Focal, Mild
Skin Note: NEUROFIBROSARC TGLs = 11-5	Subcut Tiss	Neurofibrosarcoma	
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell Bilateral	Adenoma Mesothelioma Malignant	
Note: ADENOMA TGLs = 4-8,8.1 Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 278

TRT#: 5

SEX: Male

DAY ON TEST: 559

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Spleen

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland [Pheochromocytoma Benign TGLS = 4-2.1]	Medulla	Pheochromocytoma Benign	
Intestine Large	Colon	Polyp Adenomatous	
Kidney		Nephropathy	Chronic, Mild
Liver Note: NECROSIS TGLs = 5-3.1		Necrosis	Coagulative, Moderate
Lung		Hemorrhage	Moderate
		Hyperplasia	Lymphoid, Mild
Lymph Node	Mediastinal	Hemorrhage	Marked
Nose		Fungus	Marked
		Squamous Cell Carcinoma	
Preputial Gland Note: ADENOMA TGLs = 1,2-8.4	Bilateral	Adenoma	
Testes Note: ADENOMA TGLs = 3-8,8.1	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 279

TRT#: 5

SEX: Male

DAY ON TEST: 472

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Zymbal's Gland		

MISSING

Seminal Vesicle

OBSERVATIONS

Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-1]			
Heart		Cardiomyopathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-3.1]			
Lung		Hyperplasia	Lymphoid, Mild
		Leukemia Mononuclear	
[Hyperplasia TGLS = 10-4,4.1]			
Lymph Node	Iliac	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5,6,7,9-7,6,13,9		
Nose		Inflammation	Acute, Moderate
Preputial Gland		Ectasia	Moderate
Note: ECTASIA	TGLs = 1-8.2		
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 279

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Dead

DAY ON TEST: 472
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-8	Interstit Cell	Hyperplasia	Mild
Urinary Bladder		Hemorrhage	Moderate
Note: HEMORRHAGE TGLs = 3-8.2			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 280

TRT#: 5

SEX: Male

DAY ON TEST: 502

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mesenteric
Pituitary Gland
Skin
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Preputial Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Prostate
Stomach - Forestomach
Trachea

MISSING

Seminal Vesicle

OBSERVATIONS

Heart
Kidney
Liver
Lung
Lymph Node

Mandibular
Mandibular

Cardiomyopathy
Nephropathy
Eosinophilic Focus
Hyperplasia
Hyperplasia
Squamous Cell Carcinoma

Chronic, Mild
Chronic, Minimal
Minimal
Lymphoid, Mild
Lymphoid, Moderate
Metastatic (Tongue)

Note: HYPERPLASIA TGLs = 1-9

Note: DESCRIBED AS SALIVARY GLD. AT NECROPSY..

Nose

Inflammation
Necrosis

Acute, Moderate
Focal, Moderate

Testes

Interstit Cell
Interstit Cell

Adenoma
Hyperplasia

Mild

Note: ADENOMA TGLs = 3-8

Tongue

Squamous Cell Carcinoma

Note: SQUAM CEL CARC TGLs = 2-13

Zymbal's Gland

Hyperplasia

Squamous, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 281

TRT#: 5

SEX: Male

DAY ON TEST: 577

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 17-1			
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-5			
Liver		Leukemia Mononuclear	
		Regeneration	Focal, Moderate
		Thrombosis	
Note: THROMBUS TGLs = 11-3.2			
Note: LEUKEMIA MONUC TGLs = 13-3.1			
Note: REGENERATION TGLs = 12-3.1			
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 16-9			
Note: LEUKEMIA MONUC TGLs = 10-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 281

TRT#: 5

SEX: Male

DAY ON TEST: 577

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 1,15-13,9.1

[Leukemia Mononuclear TGLS = 19-15]

Pharynx

Palate

Squamous Cell Carcinoma

Note: SQUAM CEL CARC TGLs = 18-12.1

Preputial Gland

Atrophy

Moderate

Salivary Glands

Schwannoma Malignant

Note: [SCHWANNOMA MAL] TGLs = 2-9

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 20-3.3

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 5,6-8,8.1

Zymbal's Gland

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 282

TRT#: 5

SEX: Male

DAY ON TEST: 632

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Adenocarcinoma	
Note: [ADENOCARC] TGLs = 4-7			
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
Note: [EOSIN FOCUS] TGLs = 3-3.1			
Lung		Hyperplasia	Lymphoid, Minimal
Preputial Gland		Carcinoma	
Note: ONE GLAND IS PRESENT..			
Note: CARCINOMA TGLs = 1-8.2			
Skin		Basal Cell Adenoma	
		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 6-14			
Note: BASAL CEL ADEN TGLs = 5-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-8,8.1			
Zymbal's Gland		Ectasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 283

TRT#: 5

DOSE: 0.125

SEX: Male

DISP: Moribund

DAY ON TEST: 583

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Mild
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Note: THROMBUS TGLs = 2-3			
Kidney		Nephropathy	Chronic, Moderate
Nose		Inflammation	Acute, Minimal
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 1-12			
Stomach	Forestomach	Erosion	Focal, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	Bilateral, C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Moderate
Zymbals GI			
Note: ONLY ONE GLAND IS PRESENT..			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 284

TRT#: 5

SEX: Male

DAY ON TEST: 611

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6,7-3.1		
Note: ML IS STAGE 3..			
Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-4,4.1		
Note: [ALV BRON ADEN]	TGLs = 9-4.1		
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 14-15		
Note: LEUKEMIA MONUC	TGLs = 8-13		
Note: LEUKEMIA MONUC	TGLs = 2-9		
Pharynx	Palate	Hyperplasia	Focal, Moderate
Note: HYPERPLASIA	TGLs = 12-14		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 284

TRT#: 5

SEX: Male

DAY ON TEST: 611

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland Note: ECTASIA TGLs = 3-8.2		Ectasia	Mild
Spleen Note: LEUKEMIA MONUC TGLs = 13-3		Leukemia Mononuclear	
Testes Note: ADENOMA TGLs = 4,5-8,8.1	Bilateral, Interstit Cell	Adenoma	
Zymbal's Gland Note: CARCINOMA TGLs = 11-10		Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:04

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 285

TRT#: 5

SEX: Male

DAY ON TEST: 451

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Epididymis	Bilateral	Mesothelioma Malignant	Metastatic (Testes)
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Minimal
Lung		Hyperplasia	Lymphoid, Mild
		Inflammation	Acute, Mild
Note: INFLAMMATION TGLs = 3-4.1			
Lymph Node	Mediastinal	Pigmentation	Marked
Note: PIGMENT TGLs = 4-9			
Mesentery		Mesothelioma Malignant	Metastatic (Testes)
Note: MESOTHELIO MAL TGLs = 2-13			
Pharynx	Palate	Hyperkeratosis	Diffuse, Marked
Note: HYPERKERATOSIS TGLs = 5-14			
Testes	Bilateral, Interstit Cell	Adenoma	
	Bilateral	Mesothelioma Malignant	
Note: ADENOMA TGLs = 1-8,8.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 286

TRT#: 5

SEX: Male

DAY ON TEST: 572

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Prostate
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Glandular
Zymbal's Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Thymus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Spleen
Trachea

OBSERVATIONS

Heart
Kidney
Liver
Lung
Pharynx
 Note: SQUAM CEL CARC TGLs = 4-12.1
Preputial Gland
 Note: ADENOMA TGLs = 1-8.2
Seminal Vesicle
Testes
 Note: ADENOMA TGLs = 2-8,8.1
Thyroid Gland

Palate

Bilateral, Interstit Cell

C Cell

Cardiomyopathy
Nephropathy
Basophilic Focus
Hyperplasia
Squamous Cell Carcinoma

Adenoma

Hyperplasia
Adenoma

Adenoma

Chronic, Mild
Chronic, Mild
Mild
Lymphoid, Mild

Glandular, Diffuse, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 287

TRT#: 5

SEX: Male

DAY ON TEST: 672

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	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
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
		Neoplastic Nodule	
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC TGLs = 8-3.1			
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-4,4.1			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Nose		Fungus	Marked
		Inflammation	Acute, Marked
Preputial Gland		Ectasia	Moderate
Note: ECTASIA TGLs = 3-8.2			
Prostate		Inflammation	Chronic, Moderate
Seminal Vesicle		Inflammation	Chronic, Moderate
Skin		Keratoacanthoma	
		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 2-14			
Note: KERATOACANTHMA TGLs = 1-13			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:04
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 287

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Dead

DAY ON TEST: 672
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 6-3		
Testes		Bilateral, Interstit Cell	Adenoma
Note: ADENOMA	TGLs = 4,5-8,8.1		
Zymbal's Gland		Ectasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 288

TRT#: 5

SEX: Male

DAY ON TEST: 673

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Bone Marrow		Leukemia Mononuclear	
Heart	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Moderate
Liver		Infarct	Acute, Marked
		Leukemia Mononuclear	
		Thrombosis	
Note: ML IS STAGE 3..			
Note: INFARCT TGLs = 8-3.1			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9,10-4,4.1			
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 11-14			
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 1-13			
Nose		Fungus	Mild
		Inflammation	Acute, Marked
		Necrosis	Diffuse, Marked
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 14-17			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 288	TRT#: 5	SEX: Male	DAY ON TEST: 673
	DOSE: 0.125	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland		Adenoma	
		Ectasia	Moderate
Note: ADENOMA	TGLs = 2-8.2		
Note: ECTASIA	TGLs = 3-8.2		
Skin	Sebaceous Gl	Adenoma	
		Basal Cell Adenoma	Multiple
		Squamous Cell Papilloma	Multiple
Note: SQ CL PAPILLOM	TGLs = 12,15-15,18		
Note: BASAL CEL ADEN	TGLs = 13,17-16,20		
Note: ADENOMA	TGLs = 16-19		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-3		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4,5,6-8,8.1		
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 289

TRT#: 5

SEX: Male

DAY ON TEST: 632

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Note: THROMBUS TGLs = 4-3			
Kidney		Nephropathy	Chronic, Mild
Liver		Clear Cell Focus	Minimal
	Centrilobular	Degeneration	Diffuse, Mild
		Degeneration	Cystic, Multifocal, Mild
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC TGLs = 5-3.1			
Note: DEGEN TGLs = 6-3.1			
Lung		Hyperplasia	Lymphoid, Mild
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 3-13			
Preputial Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-8.2			
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-8			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 289

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Moribund

DAY ON TEST: 632
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Adenoma
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PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 290

TRT#: 5

SEX: Male

DAY ON TEST: 579

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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	Lacrimal Gland	Lymph Node - Mandibular
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Seminal Vesicle	Thymus
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OBSERVATIONS

Kidney		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
		Neoplastic Nodule	
[Neoplastic Nodule TGLS = 1-3.1]			
Lung		Alveolar/Bronchiolar Adenoma	
		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Mild
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 4-6			
Preputial Gland		Atrophy	Moderate
Note: ONE GLAND IS PRESENT..			
Spleen		Leukemia Mononuclear	
Note: ML IS STAGE 1			
[Leukemia Mononuclear TGLS = 3-3]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5,6,7-8,8.1			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 2-10.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 290

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Moribund

DAY ON TEST: 579
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 291

TRT#: 5

SEX: Male

DAY ON TEST: 606

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland Note: NECROSIS TGLs = 6-2	Medulla	Necrosis	Acute, Marked
Heart Note: THROMBUS TGLs = 12-3	Atrium	Cardiomyopathy Thrombosis	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver Note: NECROSIS TGLs = 7,8,9,10-3.1,3.2	Centrilobular	Necrosis	Diffuse, Marked
Lung		Hyperplasia	Lymphoid, Mild
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland Note: [CARCINOMA] TGLs = 2-14		Atrophy Carcinoma	Moderate
Skin Note: EDEMA TGLs = 1-13	Subcut Tiss	Edema	Moderate
Spleen		Hematopoietic Cell Proliferation	Marked
Testes Note: ADENOMA TGLs = 3,4-8,8.1	Bilateral, Interstit Cell	Adenoma	
Zymbals GI Note: ONE GLAND IS PRESENT..			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 291

TRT#: 5

SEX: Male

DAY ON TEST: 606

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 292

TRT#: 5

DOSE: 0.125

SEX: Male

DISP: Dead

DAY ON TEST: 575

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Mammary Gland
Pituitary Gland
Spleen
Thyroid Gland

Bone Marrow
Islets, Pancreatic
Nose
Prostate
Stomach - Forestomach
Trachea

Brain
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Glandular
Urinary Bladder

AUTO PRECLUDES DIAG.

Intestine Large - Cecum
Intestine Small - Jejunum

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

OBSERVATIONS

Heart
Intestine Large
 Note: [THROMBUS] TGLs = 5-7.1
Kidney
Liver
 Note: [EOSIN FOCUS] TGLs = 9,10-3.2,3.1
Lung
Pharynx
 Note: SQUAM CEL CARC TGLs = 7-12.1
Preputial Gland
Skin
 Note: KERATOACANTHMA TGLs = 1-13
 Note: BASAL CEL ADEN TGLs = 6-14
Testes
 Note: ADENOMA TGLs = 3-8

Colon
Palate
Hair Follicle
Bilateral, Interstit Cell

Cardiomyopathy
Thrombosis
Nephropathy
Eosinophilic Focus
Vacuolization Cytoplasmic
Hyperplasia
Squamous Cell Carcinoma
Atrophy
Basal Cell Adenoma
Hyperplasia
Keratoacanthoma
Adenoma
Atrophy

Chronic, Moderate
Moderate
Chronic, Mild
Moderate
Focal, Mild
Lymphoid, Mild
Moderate
Basal Cell, Focal, Mild
Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 292

TRT#: 5

SEX: Male

DAY ON TEST: 575

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ATROPHY TGLs = 2-8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 293

TRT#: 5

SEX: Male

DAY ON TEST: 585

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Zymbal's Gland

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Skin
Thyroid Gland

Blood
Esophagus
Intestine Small - Duodenum
Kidney
Nose
Prostate
Spleen
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach
Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Heart
Liver
Note: CONGESTION TGLs = 4-3.1

Cardiomyopathy
Congestion

Chronic, Moderate
Marked

Lung
Note: CHORDOMA METASTATIC IS THE APPROPRIATE DX.
Note: [NEOPLASM NOS] TGLs = 6-4,4.1

Neoplasm Nos

Metastatic (Uncertain Primary Site)

Preputial Gland
Note: CARCINOMA TGLs = 1-8.2

Carcinoma

Testes
Note: ADENOMA TGLs = 2,3-8,8.1

Bilateral, Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 294

TRT#: 5

SEX: Male

DAY ON TEST: 633

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear Myelofibrosis	Marked
Kidney		Nephropathy	Chronic, Mild
Liver	Centrilobular	Degeneration Leukemia Mononuclear	Diffuse, Moderate
Note: LEUKEMIA MONUC TGLs = 3-3.1 Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular Mediastinal Mesenteric	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-13			
Pancreas		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-6			
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 5-14			
Preputial Gland		Atrophy	Moderate
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-3			
Stomach	Glandular Forestomach	Erosion Inflammation	Multifocal, Moderate Membranous, Multifocal, Moderate
Note: INFLAMMATION TGLs = 6-6			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 294

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Moribund

DAY ON TEST: 633
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Bilateral, Interstit Cell	Adenoma
Note: ADENOMA TGLs = 2-8,8.1		
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 295

TRT#: 5

SEX: Male

DAY ON TEST: 680

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Marked
	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Chronic, Moderate
	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Moderate
		Eosinophilic Focus	Moderate
		Leukemia Mononuclear	
		Neoplastic Nodule	Multiple
<p>Note: ML IS STAGE 2..</p> <p>Note: [BASOPH FOCUS] TGLs = 8-3.1</p> <p>Note: NEOPLASTIC NOD TGLs = 9,10-3.1</p> <p>Note: LEUKEMIA MONUC TGLs = 7-3.1</p>			
Lung		Alveolar/Bronchiolar Adenoma	
		Hyperplasia	Lymphoid, Mild
<p>Note: ALV BRON ADEN TGLs = 11-4.1</p>			
Preputial Gland		Atrophy	Moderate
		Hyperplasia	Squamous, Focal, Mild
Skin		Basal Cell Adenoma	
<p>Note: BASAL CEL ADEN TGLs = 1-13</p>			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 295

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 680
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 6-3

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 2,3-8,8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 296

TRT#: 5

SEX: Male

DAY ON TEST: 619

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Bone Marrow		Hypoplasia	Marked
Heart	Atrium	Thrombosis	
Note: THROMBUS TGLs = 8-3			
Kidney		Nephropathy	Chronic, Moderate
Skin		Basal Cell Adenoma	
Note: [BASAL CEL ADEN] TGLs = 1-13			
Stomach	Glandular	Erosion	Multifocal, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2,3-8,8.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 297

TRT#: 5

SEX: Male

DAY ON TEST: 623

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Cecum	Inflammation	Acute, Marked
Note: INFLAMMATION	TGLs = 5-7		
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Necrosis	Focal, Minimal
		Vacuolization Cytoplasmic	Multifocal, Minimal
Lung		Hyperplasia	Lymphoid, Mild
Mesentery		Thrombosis	
Nose		Fungus	Mild
		Inflammation	Acute, Mild
Skin	Subcut Tiss	Fibroma	
		Squamous Cell Carcinoma	
Note: [SQUAM CEL CARC]	TGLs = 1-13		
Note: FIBROMA	TGLs = 2-14		
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3,4-8,8.1		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 298

TRT#: 5

SEX: Male

DAY ON TEST: 505

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Prostate
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Seminal Vesicle
Thymus

Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Preputial Gland
Skin
Thyroid Gland

OBSERVATIONS

Bone Marrow
Kidney
Liver

Hyperplasia
Nephropathy
Basophilic Focus
Hematopoietic Cell Proliferation
Vacuolization Cytoplasmic

Moderate
Chronic, Mild
Mild
Minimal
Multifocal, Mild

[Basophilic Focus TGLS = 2-3.1]

Lung
Nose

Hyperplasia
Fungus
Hyperplasia
Inflammation
Congestion
Adenoma
Hyperplasia

Lymphoid, Mild
Moderate
Glandular, Moderate
Acute, Moderate
Moderate
Minimal

Spleen
Testes

Interstit Cell
Interstit Cell

Carcinoma

Note: ADENOMA TGLs = 1-8

Zymbal's Gland

Note: CARCINOMA TGLs = 3-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 299

TRT#: 5

SEX: Male

DAY ON TEST: 680

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 5-2]			
Heart	Epicardium	Cardiomyopathy	Chronic, Mild
	Atrium	Hemorrhage	Chronic, Moderate
[Cardiomyopathy TGLS = 11,12-3]			
[Thrombosis TGLS = 4-15]			
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 6-5		
Liver		Basophilic Focus	Moderate
		Eosinophilic Focus	Moderate
		Leukemia Mononuclear	
Note: [EOSIN FOCUS] TGLs = 7,8,9,10-3.1			
Lung		Hyperplasia	Lymphoid, Mild
		Leukemia Mononuclear	
Lymph Node	Mesenteric	Angiectasis	Moderate
	Mandibular	Leukemia Mononuclear	
Skin		Basal Cell Adenoma	
		Cyst Epithelial Inclusion	
Note: CYST EPITH INC TGLs = 1-13			
Note: BASAL CEL ADEN TGLs = 2-14			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 299

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 680
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Bilateral, Interstit Cell	Adenoma
Note: ADENOMA TGLs = 3-8,8.1		
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 300

TRT#: 5

SEX: Male

DAY ON TEST: 626

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Cecum	Erosion	Mild
	Cecum	Inflammation	Acute, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
	Centrilobular	Degeneration	Diffuse, Mild
Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 7-15			
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 3-8.2			
Skin	Subcut Tiss	Fibrous Histiocytoma	
		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-13			
Note: [FIB HISTIOCYT] TGLs = 2,8-14,16			
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5,6-8,8.1			
Zymbal's Gland		Ectasia	Mild
		Hyperplasia	Squamous, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 301

TRT#: 5

SEX: Male

DAY ON TEST: 646

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Moderate
Liver	Centrilobular	Degeneration	Diffuse, Moderate
		Degeneration	Cystic, Multifocal, Mild
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Mild
Note: DEGEN TGLs = 3-3.1			
Lung		Hyperplasia	Lymphoid, Mild
Pharynx	Palate	Squamous Cell Papilloma	Multiple
Note: SQ CL PAPILLOM TGLs = 5,6-12,13			
Preputial Gland		Atrophy	Moderate
Prostate		Hyperplasia	Glandular, Focal, Mild
Skin	Sebaceous GI	Adenoma	Multiple
		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN TGLs = 8,10,11-14,16,17			
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-8,8.1			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 7-10			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 301

TRT#: 5
DOSE: 0.125

SEX: Male
DISP: Moribund

DAY ON TEST: 646
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 302

TRT#: 5

SEX: Male

DAY ON TEST: 646

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Seminal Vesicle
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Prostate
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Eosinophilic Focus
Vacuolization Cytoplasmic

Chronic, Mild
Chronic, Moderate
Mild
Moderate
Focal, Moderate

Note: VACUOLIZ CYTO TGLs = 5-3.1

Lung
Pharynx

Hyperplasia
Squamous Cell Papilloma

Lymphoid, Mild

Note: SQ CL PAPILOM TGLs = 7-14

Pituitary Gland

Palate

Adenoma

Note: ADENOMA TGLs = 6-2

Preputial Gland

Pars Distalis

Carcinoma

Note: CARCINOMA TGLs = 1,2-8.4

Skin

Bilateral

Basal Cell Adenoma
Cyst Epithelial Inclusion

Multiple

Note: BASAL CEL ADEN TGLs = 8,9-15,16

Note: CYST EPITH INC TGLs = 4-13

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 3-8,8.1

Thyroid Gland

Follicular Cel

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 303

TRT#: 5

SEX: Male

DAY ON TEST: 680

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Epididymis
Esophagus	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	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Glandular	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Thymus

OBSERVATIONS

Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC TGLs = 5-3.1			
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mandibular	Leukemia Mononuclear	
Nose		Fungus	Marked
		Inflammation	Acute, Mild
Pancreas		Atrophy	Mild
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 1-8.2			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-3			
Stomach	Forestomach	Squamous Cell Papilloma	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2,4-8,8.1			
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 303

TRT#: 5

SEX: Male

DAY ON TEST: 680

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FOLLICULAR CARCINOMA HAS AN UNUSUAL PATTERN..

[Carcinoma TGLS = 6-2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 304

TRT#: 5

DOSE: 0.125

SEX: Male

DISP: Moribund

DAY ON TEST: 670

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland Note: PHEOCHROM BGN TGLs = 7-2	Bilateral, Medulla	Pheochromocytoma Benign	
Bone Marrow		Leukemia Mononuclear	
Harderian Gland Note: INFLAMMATION TGLs = 14-16		Inflammation	Chronic, Mild
Heart Note: THROMBUS TGLs = 12-3	Atrium	Cardiomyopathy Thrombosis	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver Note: ML IS STAGE 3. Note: LEUKEMIA MONUC TGLs = 9-3.1		Leukemia Mononuclear	
Lung Note: LEUKEMIA MONUC TGLs = 10,11-4,4.1		Leukemia Mononuclear	
Lymph Node	Mandibular Mediastinal Mesenteric Pancreatic	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Note: ILEOCECAL LNN. CONSIDERED TO BE PART OF MESENT.CHAIN Note: LEUKEMIA MONUC TGLs = 8,13,19,20-7,15,20,7			
Pancreas		Atrophy	Mild
Preputial Gland Note: ECTASIA TGLs = 3-8.2		Ectasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 304	TRT#: 5 DOSE: 0.125	SEX: Male DISP: Moribund	DAY ON TEST: 670 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Skin		Basal Cell Adenoma	
	Subcut Tiss	Edema	Moderate
	Subcut Tiss	Fibroma	
		Keratoacanthoma	
Note: EDEMA	TGLs = 2-13		
Note: [KERATOACANTHMA]	TGLs = 6-14		
Note: FIBROMA	TGLs = 17-19		
Note: [BASAL CEL ADEN]	TGLs = 16-18		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 18-3		
Stomach	Glandular	Erosion	Focal, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4,5-8,8.1		
Zymbal's Gland		Ectasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 305

TRT#: 5

SEX: Male

DAY ON TEST: 680

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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 - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Focal, Mild
Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Leukemia Mononuclear	

Note: PATCHY BASOPHILIA OF LIVER PARENCHYMA..

Note: [BASOPH FOCUS] TGLs = 5,6,7-3.1

Note: ML IS STAGE 2..

Lung		Hyperplasia	Lymphoid, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
Preputial Gland		Adenoma	
Note: ADENOMA			
TGLs = 2-8.2			
Skin		Basal Cell Adenoma	
	Subcut Tiss	Fibroma	

Note: BASAL CEL ADEN TGLs = 8-14

Note: FIBROMA TGLs = 1-13

Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	

Note: ADENOMA TGLs = 3-8,8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 393

TRT#: 7

SEX: Male

DAY ON TEST: 243

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Zymbal's Gland		

MISSING

Seminal Vesicle

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB	TGLs = 5-3.1		
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hemorrhage	Moderate
Note: HEMORRHAGE	TGLs = 4-7		
Preputial Gland		Hyperplasia	Focal, Minimal
Skeletal Muscle	Back	Schwannoma Malignant	Metastatic (Spinal Cord)
Spinal Cord	Nerve	Schwannoma Malignant	
Note: SCHWANNOMA MAL	TGLs = 6-13,13.1		
Urinary Bladder	Transit Epithe	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 1-8.2		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 402	TRT#: 7	SEX: Male	DAY ON TEST: 372
	DOSE: 0.25	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Seminal Vesicle	Thymus
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OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Eosinophilic Focus	Mild
		Granuloma	Mild
Note: [CLEAR CL FOCUS] TGLs = 5-3.1			
Lung		Hyperplasia	Lymphoid, Mild
Pituitary Gland	Pars Distalis	Cyst	Mild
[Cyst TGLS = 3-2]			
Preputial Gland		Adenoma	
		Ectasia	Moderate
Note: [ADENOMA] TGLs = 1-8.3			
Note: ECTATIC DUCT FILLED WITH KERATIN..			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 403

TRT#: 7

SEX: Male

DAY ON TEST: 85

DOSE: 0.25

DISP: Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Prostate
Stomach - Forestomach
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Pituitary Gland
Skin
Testes
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Preputial Gland
Spleen
Thymus
Zymbal's Gland

MISSING

Seminal Vesicle

OBSERVATIONS

Lung

Hemorrhage

Mild

[Hemorrhage TGLS = 4-4,4.1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 404

TRT#: 7

SEX: Male

DAY ON TEST: 85

DOSE: 0.25

DISP: Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Kidney
Mammary Gland
Pituitary Gland
Skin
Testes
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Preputial Gland
Spleen
Thymus
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Prostate
Stomach - Forestomach
Thyroid Gland

MISSING

Seminal Vesicle

OBSERVATIONS

Heart
Lung

Cardiomyopathy
Hemorrhage

Chronic, Minimal
Mild

[Hemorrhage TGLS = 2-4,4.1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 405

TRT#: 7

SEX: Male

DAY ON TEST: 551

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Moderate
Liver		Eosinophilic Focus	Mild
	Centrilobular	Necrosis	Diffuse, Marked
Note: [EOSIN FOCUS] TGLs = 7-3.1			
Note: NECROSIS TGLs = 8-3.1			
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 13-12.1			
Preputial Gland		Ectasia	Moderate
		Hyperplasia	Mild
Skin		Basal Cell Adenoma	Multiple
		Basal Cell Carcinoma	
Note: BASAL CEL CARC TGLs = 1-13			
Note: BASAL CEL ADEN TGLs = 2,3,4,5-14,15,16,17			
Spleen		Hematopoietic Cell Proliferation	Marked
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 6-8,8.1			
Tongue		Squamous Cell Papilloma	
Zymbal's Gland		Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 405

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Dead

DAY ON TEST: 551
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Ectasia

Moderate

Note: ADENOMA TGLs = 12-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 406

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Moribund

DAY ON TEST: 646
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland	Preputial Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
	Atrium	Thrombosis	
Note: THROMBUS	TGLs = 3-3		
Kidney	Renal Tubule	Adenoma	
		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
		Regeneration	Multifocal, Moderate
Note: LEUKEMIA MONUC	TGLs = 2-3.1		
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-4,4.1		
Lymph Node	Mesenteric	Leukemia Mononuclear	
Skin		Basal Cell Adenoma	Multiple
Note: BASAL CEL ADEN	TGLs = 4,5,6-13,14,15		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-3		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 406

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Moribund

DAY ON TEST: 646
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-8.1			
Zymbal's Gland		Hyperplasia	Squamous, Focal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 407

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Moribund

DAY ON TEST: 556
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
		Regeneration	Multifocal, Moderate
Note: LEUKEMIA MONUC	TGLs = 7,8-3.2		
Note: ML IS STAGE 3..			
Lung		Hyperplasia	Lymphoid, Mild
		Leukemia Mononuclear	
Pancreas		Atrophy	Mild
Pituitary Gland		Leukemia Mononuclear	
Skin		Basal Cell Adenoma	Multiple
		Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC	TGLs = 3,4-15,16		
Note: BASAL CEL ADEN	TGLs = 1,2,5-13,14,17		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 12-3.3		
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 407

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Moribund

DAY ON TEST: 556
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 6-8
Zymbal's Gland
Note: ADENOMA TGLs = 9-10

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 408

TRT#: 7

SEX: Male

DAY ON TEST: 317

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pituitary Gland
Seminal Vesicle
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Kidney
Nose
Preputial Gland
Spleen
Thyroid Gland

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

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Heart
Lung

Skin
 Note: FIBROMA TGLs = 1-10.1
Testes

Alveolar Epith

Subcut Tiss

Interstit Cell

Cardiomyopathy
Hyperplasia
Hyperplasia
Fibroma

Adenoma
Atrophy

Chronic, Mild
Focal, Minimal
Lymphoid, Mild

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 409

TRT#: 7

SEX: Male

DAY ON TEST: 646

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Heart
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Seminal Vesicle
Trachea

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Jejunum
Nose
Preputial Gland
Stomach - Forestomach
Urinary Bladder

Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Prostate
Stomach - Glandular
Zymbal's Gland

Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Salivary Glands
Thymus

OBSERVATIONS

Bone Marrow
Brain
 Note: ASTROCYTO MAL TGLs = 9-1
Intestine Large
 Note: POLYP ADENOMAT TGLs = 10-7
Kidney
Liver

 Note: ML IS STAGE 2..
 Note: REGENERATION TGLs = 6-3.2
 Note: NEOPLASTIC NOD TGLs = 5-3.1
 Note: LEUKEMIA MONUC TGLs = 4-3.1

Medulla
Colon, Descend Colon

Hyperplasia
Astrocytoma Malignant

Polyp Adenomatous

Nephropathy
Eosinophilic Focus
Leukemia Mononuclear
Neoplastic Nodule
Regeneration

Moderate

Chronic, Moderate
Moderate

Multiple
Multifocal, Moderate

Lung
Lymph Node
Skin

 Note: [SQ CL PAPILLOM] TGLs = 8-14
 Note: BASAL CEL CARC TGLs = 7-13

Mesenteric

Hyperplasia
Hyperplasia
Basal Cell Carcinoma
Squamous Cell Papilloma

Lymphoid, Mild
Reticulum Cell, Moderate

Spleen
Testes

Bilateral, Interstit Cell

Leukemia Mononuclear
Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 409

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Moribund

DAY ON TEST: 646
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 1,2-8,8.1
Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 410

TRT#: 7

SEX: Male

DAY ON TEST: 646

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 3-2]			
Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon, Descend Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 10-7			
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4-5			
Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Hepatocellular Carcinoma	
		Leukemia Mononuclear	
		Thrombosis	
Note: [HEPATOCLR CARC] TGLs = 15-3.2			
Note: LEUKEMIA MONUC TGLs = 13,14-3.1			
Lung		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 12-14			
Preputial Gland		Adenoma	
		Ectasia	Moderate
Note: ECTASIA TGLs = 6-8.2			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 410

TRT#: 7

SEX: Male

DAY ON TEST: 646

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA Skin	TGLs = 5-8.2		Basal Cell Adenoma Keratoacanthoma Sarcoma Squamous Cell Carcinoma	Multiple
		Subcut Tiss		
Note: BASAL CEL ADEN Note: BASAL CEL ADEN Note: BASAL CEL ADEN Note: [SARCOMA] Note: SQUAM CEL CARC Note: KERATOACANTHMA	TGLs = 25-24 TGLs = 17,18-16,17 TGLs = 20,21,22,24-19,20,21,23 TGLs = 2-13 TGLs = 23-22 TGLs = 19-18			
Spleen			Hematopoietic Cell Proliferation Leukemia Mononuclear Adenoma	Moderate
Testes		Bilateral, Interstit Cell		
Note: ADENOMA Thyroid Gland	TGLs = 8,9-8,8.1			
		C Cell	Hyperplasia	Focal, Minimal
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 411

TRT#: 7

SEX: Male

DAY ON TEST: 408

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Preputial Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Thymus

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

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Trachea

MISSING

Seminal Vesicle

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
Lung		Hyperplasia	Lymphoid, Mild
Prostate		Inflammation	Chronic Active, Minimal
Skin		Basal Cell Adenoma	
	Subcut Tiss	Fibrosis	Focal, Mild
Note: BASAL CEL ADEN	TGLs = 3-10.2		
Note: FIBROSIS	TGLs = 4-10.3		
Testes	Interstit Cell	Hyperplasia	Minimal
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 2-10.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 412

TRT#: 7

SEX: Male

DAY ON TEST: 621

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	Marked
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Carcinoma	
	Centrilobular	Necrosis	Diffuse, Moderate
		Regeneration	Diffuse, Moderate
		Vacuolization Cytoplasmic	Moderate
		Hyperplasia	Lymphoid, Mild
		Hyperplasia	Reticulum Cell, Mild
	Mesenteric	Hyperplasia	Focal, Minimal
	Acinus	Atrophy	Moderate
		Hyperplasia	Glandular, Focal, Minimal
		Basal Cell Adenoma	Multiple
		Squamous Cell Papilloma	
		Hematopoietic Cell Proliferation	Moderate

Note: NECROSIS TGLs = 4-3.1
 Note: [HEPATOCLR CARC] TGLs = 3-3.2

Note: BASAL CEL ADEN TGLs = 5,7,9-13,15,17
 Note: [SQ CL PAPILLOM] TGLs = 6,8-14,16

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 412

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Dead

DAY ON TEST: 621
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Bilateral, Interstit Cell	Adenoma	
Zymbal's Gland		Ectasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 413

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Moribund

DAY ON TEST: 645
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Marked
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Marked
		Leukemia Mononuclear	
		Neoplastic Nodule	Multiple
Note: ML IS STAGE 3..			
Note: [NEOPLASTIC NOD] TGLs = 5,6,7,8-3.1,3.2			
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
Pharynx	Palate	Squamous Cell Papilloma	
Preputial Gland		Inflammation	Chronic Active, Moderate
Skin	Sebaceous Gl	Adenoma	
		Basal Cell Adenoma	Multiple
		Keratoacanthoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 413

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Moribund

DAY ON TEST: 645
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: KERATOACANTHMA TGLs = 10-13

Note: BASAL CEL ADEN TGLs = 11,12-14,15

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 9-3

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 2,3-8,8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 414

TRT#: 7

SEX: Male

DAY ON TEST: 463

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Preputial Gland

OBSERVATIONS

Epididymis		Mesothelioma Malignant	Metastatic (Testes)
Heart		Cardiomyopathy	Chronic, Mild
Note: ATRIA ARE DILATED..NO DX..			
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Neoplastic Nodule	
		Vacuolization Cytoplasmic	Multifocal, Minimal
Note: [NEOPLASTIC NOD] TGLs = 2-3.1			
Lung		Congestion	Moderate
		Hyperplasia	Lymphoid, Mild
[Congestion TGLS = 1-4,4.1]			
Testes	Interstitial Cell	Adenoma	
	Bilateral	Mesothelioma Malignant	
Note: ADENOMA TGLs = 3-8			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 415

TRT#: 7

SEX: Male

DAY ON TEST: 372

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Prostate
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Preputial Gland
Stomach - Forestomach
Trachea

MISSING

Seminal Vesicle

OBSERVATIONS

Heart
Kidney
Liver
Lung
Lymph Node
Note: CONGESTION TGLs = 1-9
Pharynx
Note: SQ CL PAPILLOM TGLs = 2-13
Skin
Testes
Zymbal's Gland
Note: CARCINOMA TGLs = 3-10.1

Mandibular
Palate
Hair Follicle
Interstit Cell

Cardiomyopathy
Nephropathy
Basophilic Focus
Hyperplasia
Congestion
Squamous Cell Papilloma
Hyperplasia
Adenoma
Carcinoma

Chronic, Mild
Chronic, Mild
Minimal
Lymphoid, Mild
Mild
Basal Cell, Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 416

TRT#: 7

SEX: Male

DAY ON TEST: 600

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 3-5			
Liver		Eosinophilic Focus	Marked
		Leukemia Mononuclear	
		Regeneration	Multifocal, Moderate
Note: ML IS STAGE 3..			
Note: REGENERATION TGLs = 8-3.2			
Note: LEUKEMIA MONUC TGLs = 5,6,7-3.1			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Parathyroid Gland		Hyperplasia	Mild
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 9-14			
Preputial Gland		Carcinoma	
Note: OPPOSING GLAND IS NOT PRESENT..			
Skin		Basal Cell Adenoma	Multiple
		Squamous Cell Carcinoma	Multiple
Note: SQUAM CEL CARC TGLs = 1-13			
Note: BASAL CEL ADEN TGLs = 11,12-16,17			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 416	TRT#: 7	SEX: Male	DAY ON TEST: 600
	DOSE: 0.25	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-8,8.1		
Zymbal's Gland		Ectasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 417 **TRT#:** 7 **SEX:** Male **DAY ON TEST:** 521
DOSE: 0.25 **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mandibular	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Mammary Gland	Seminal Vesicle
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OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-3.1		
Lung		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-3		
Stomach	Forestomach	Ulcer	Marked
Note: ULCER	TGLs = 5-6		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-8,8.1		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 418

TRT#: 7

SEX: Male

DAY ON TEST: 460

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	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	Preputial Gland	Prostate
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney	Renal Tubule	Degeneration	Marked
Note: DEGEN TGLs = 4-5			
Liver		Basophilic Focus	Mild
		Granuloma	Moderate
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Moderate
Note: HYPERPLASIA TGLs = 5-9			
Salivary Glands		Atrophy	Mild
Skin		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 7-10.2			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: ADENOMA TGLs = 2-8			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-10.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 419

TRT#: 7

SEX: Male

DAY ON TEST: 680

DOSE: 0.25

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Bone Marrow		Hyperplasia	Moderate
Heart	Atrium	Thrombosis	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 7-5			
Liver		Degeneration	Cystic, Multifocal, Moderate
		Leukemia Mononuclear	
		Necrosis	Focal, Mild
		Regeneration	Multifocal, Marked
		Vacuolization Cytoplasmic	Multifocal, Mild
Note: REGENERATION TGLs = 8,10-3.1			
Note: LEUKEMIA MONUC TGLs = 11-3.1			
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Marked
		Leukemia Mononuclear	
Note: INFILTRAT CELL TGLs = 12-4,4.1			
Skin		Basal Cell Adenoma	Multiple
		Basal Cell Carcinoma	
Note: BASAL CEL CARC TGLs = 3-15			
Note: BASAL CEL ADEN TGLs = 1,2-13,14			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 419

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 680
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear
Testes	Bilateral, Interstit Cell	Adenoma
Note: ADENOMA	TGLs = 4,5-8,8.1	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 420

TRT#: 7

SEX: Male

DAY ON TEST: 547

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Thymus

OBSERVATIONS

Brain		Gliosis	Focal, Mild
Heart		Cardiomyopathy	Chronic, Minimal
Intestine Large	Colon, Descend Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT	TGLs = 4-7		
Kidney		Nephropathy	Chronic, Minimal
Liver		Eosinophilic Focus	Minimal
		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC	TGLs = 6-3.2		
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILLOM	TGLs = 8-13		
Preputial Gland		Atrophy	Moderate
Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 7-10.1		
Spleen		Atrophy	Moderate
Note: ATROPHY	TGLs = 3-3		
Stomach	Glandular	Erosion	Multifocal, Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 10-8,8.1		
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 9-10.2		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 420

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Dead

DAY ON TEST: 547
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 421

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Moribund

DAY ON TEST: 535
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 4-5		
Liver		Basophilic Focus	Moderate
Note: BASOPH FOCUS	TGLs = 7-3.1		
Nose		Fungus	Marked
		Inflammation	Acute, Moderate
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 12-13		
Preputial Gland		Atrophy	Moderate
		Ectasia	Moderate
Note: ECTASIA	TGLs = 13-8.2		
Spleen		Atrophy	Moderate
Note: ATROPHY	TGLs = 6-3		
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: ADENOMA	TGLs = 1-8		
Zymbal's Gland		Carcinoma	
		Ectasia	Marked
		Hyperplasia	Squamous, Focal, Minimal
Note: [CARCINOMA]	TGLs = 9-10.1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 421

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Moribund

DAY ON TEST: 535
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 422

TRT#: 7

SEX: Male

DAY ON TEST: 506

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Seminal Vesicle
Thymus

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Intestine Large
Note: [ADENOCARC] TGLs = 4-7

Colon

Adenocarcinoma

Kidney
Liver

Nephropathy
Eosinophilic Focus
Leukemia Mononuclear

Chronic, Mild
Minimal

[Leukemia Mononuclear TGLS = 5,6-3.1]

Lung
Preputial Gland
Prostate
Spleen

Hyperplasia
Ectasia
Inflammation
Leukemia Mononuclear

Lymphoid, Mild
Moderate
Chronic Active, Mild

[Leukemia Mononuclear TGLS = 3-3]

Testes
Note: ADENOMA TGLs = 1,2-8,8.1

Bilateral, Interstit Cell

Adenoma

Zymbal's Gland

Carcinoma
Ectasia

Marked

Note: CARCINOMA TGLs = 7-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 423

TRT#: 7

SEX: Male

DAY ON TEST: 495

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB TGLs = 2-3.1			
Lung		Hyperplasia	Lymphoid, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-10.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 424

TRT#: 7

SEX: Male

DAY ON TEST: 479

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Brain [Astrocytoma Malignant TGLS = 8-1]	Cerebrum	Astrocytoma Malignant	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Small	Duodenum	Adenocarcinoma	Cystic, Mucinous
	Jejunum	Adenocarcinoma	
Note: ADENOCARC TGLs = 11-6.1	Jejunum	Diverticulum	Marked
Note: DIVERTICULUM TGLs = 10-6			
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
Note: HYPERBASOPHILIA..		Hematopoietic Cell Proliferation	Minimal
Pharynx	Palate	Squamous Cell Carcinoma	
Note: [SQUAM CEL CARC] TGLs = 9-13			
Preputial Gland		Ectasia	Moderate
Note: ECTASIA TGLs = 1,2-8.2			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3,4-8,8.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 425

TRT#: 7

DOSE: 0.25

SEX: Male

DISP: Moribund

DAY ON TEST: 505

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Epididymis

Intestine Small - Duodenum

Lymph Node - Mandibular

Pancreas

Salivary Glands

Stomach - Glandular

Adrenal Gland - Medulla

Esophagus

Intestine Small - Ileum

Lymph Node - Mesenteric

Parathyroid Gland

Seminal Vesicle

Trachea

Bone Marrow

Intestine Large - Cecum

Intestine Small - Jejunum

Mammary Gland

Pituitary Gland

Skin

Urinary Bladder

Brain

Intestine Large - Rectum

Islets, Pancreatic

Nose

Prostate

Stomach - Forestomach

MISSING

Thymus

OBSERVATIONS

Heart

Intestine Large

Note: [ADENOCARC] TGLs = 3-7

Kidney

Liver

Colon

Cardiomyopathy

Adenocarcinoma

Chronic, Minimal

Nephropathy

Basophilic Focus

Degeneration

Eosinophilic Focus

Hematopoietic Cell Proliferation

Chronic, Minimal

Mild

Cystic, Focal, Moderate

Minimal

Mild

Note: DEGEN TGLs = 7-3.1

Lung

Pharynx

Note: SQ CL PAPILLOM TGLs = 8-13

Preputial Gland

Spleen

Testes

Note: ADENOMA TGLs = 1,2-8,8.1

Thyroid Gland

Zymbal's Gland

Note: CARCINOMA TGLs = 9-10.1

Palate

Hyperplasia

Squamous Cell Papilloma

Lymphoid, Mild

Inflammation

Hematopoietic Cell Proliferation

Adenoma

Chronic Active, Mild

Moderate

Bilateral, Interstit Cell

Adenoma

Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 425

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Moribund

DAY ON TEST: 505
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 426

TRT#: 7

SEX: Male

DAY ON TEST: 579

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Mammary Gland

OBSERVATIONS

Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Adenocarcinoma	
Note: [ADENOCARC] TGLs = 5			
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Neoplastic Nodule	
		Vacuolization Cytoplasmic	Multifocal, Moderate
Note: VACUOLIZ CYTO TGLs = 3-3.1			
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
		Squamous Cell Carcinoma	Metastatic (Uncertain Primary Site)
Note: PRIMARY- SITE IS SKIN			
Lymph Node	Axillary	Carcinoma	Metastatic (Uncertain Primary Site)
	Mediastinal	Squamous Cell Carcinoma	Metastatic (Uncertain Primary Site)
Note: BRACHIAL LNN IS MISSING..			
Note: CARCINOMA TGLs = 6,9-9,13			
Note: PRIMARY- SITE IS SKIN			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 426

TRT#: 7

SEX: Male

DAY ON TEST: 579

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pharynx Note: SQ CL PAPILLOM TGLs = 8-12.1	Palate	Squamous Cell Papilloma	
Preputial Gland		Atrophy	Moderate
Skin		Basal Cell Adenoma	Multiple
		Squamous Cell Carcinoma	Multiple
		Squamous Cell Papilloma	
Note: SQ CL PAPILLOM TGLs = 7-14 Note: BASAL CEL ADEN TGLs = 10,11,12-16,17,18 Note: [SQUAM CEL CARC] TGLs = 9,14-15,19			
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes Note: ADENOMA TGLs = 1-8,8.1	Bilateral, Interstit Cell	Adenoma	
Zymbal's Gland Note: ADENOMA TGLs = 15-10		Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 427

TRT#: 7

SEX: Male

DAY ON TEST: 680

DOSE: 0.25

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Note: THROMBUS	TGLs = 10-3		
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Basophilic Focus	Marked
		Degeneration	Cystic, Multifocal, Moderate
		Leukemia Mononuclear	
		Regeneration	Multifocal, Marked
Note: LEUKEMIA MONUC	TGLs = 12-3.1		
Note: REGENERATION	TGLs = 13,14,15,16,17-3.1		
Note: ML IS STAGE 3..			
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 11-4,4.1		
Lymph Node	Mesenteric	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 427

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 680
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 4-13	Pancreatic	Leukemia Mononuclear	
Mesentery Note: NECROSIS TGLs = 5-14	Fat	Necrosis	Moderate
Pituitary Gland [Adenoma TGLS = 7-2]	Pars Distalis	Adenoma	
Skin		Basal Cell Adenoma Basal Cell Carcinoma Squamous Cell Carcinoma Squamous Cell Papilloma	Multiple
Note: BASAL CEL ADEN TGLs = 20,21,22-17,18,19 Note: SQUAM CEL CARC TGLs = 18-15 Note: SQ CL PAPILLOM TGLs = 8-20 Note: BASAL CEL CARC TGLs = 19-16			
Spleen Note: LEUKEMIA MONUC TGLs = 6-3		Leukemia Mononuclear	
Testes Note: ADENOMA TGLs = 1-8,8.1	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 428

TRT#: 7

SEX: Male

DAY ON TEST: 592

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 2-2]			
Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 8-5		
Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Mild
		Neoplastic Nodule	
Note: [EOSIN FOCUS]	TGLs = 10-3.1		
Note: [NEOPLASTIC NOD]	TGLs = 11-3.2		
Lung		Hyperplasia	Lymphoid, Mild
		Squamous Cell Carcinoma	Metastatic (Skin)
Note: SQUAM CEL CARC	TGLs = 14-4.1		
Lymph Node	Axillary	Squamous Cell Carcinoma	Metastatic (Skin)
Note: SQUAM CEL CARC	TGLs = 12-13		
Pharynx	Palate	Hyperkeratosis	Focal, Moderate
Note: HYPERKERATOSIS	TGLs = 15-14		
Preputial Gland		Ectasia	Moderate
Skin		Basal Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 428	TRT#: 7 DOSE: 0.25	SEX: Male DISP: Moribund	DAY ON TEST: 592 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Subcut Tiss	Fibroma Squamous Cell Carcinoma	Multiple
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Note: [FIBROMA] TGLs = 16-15
Note: SQUAM CEL CARC TGLs = 1,17-10.1,16
Note: BASAL CEL CARC TGLs = 17-16

Spleen	Hematopoietic Cell Proliferation	Mild
Testes	Bilateral, Interstit Cell Adenoma Atrophy	Marked
	Interstit Cell Hyperplasia	Mild

Note: ADENOMA TGLs = 5-8.1
Note: ATROPHY TGLs = 4-8

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 429

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Dead

DAY ON TEST: 612
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Multifocal, Minimal
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
		Schwannoma Malignant	
Note: SCHWANNOMA MAL TGLs = 12-3			
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3			
Note: LEUKEMIA MONUC TGLs = 9,10-3.1			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 15-6.1			
Note: LEUKEMIA MONUC TGLs = 11-17			
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 7-16			
Preputial Gland		Ectasia	Moderate
Note: ECTASIA TGLs = 4-8.2			
Seminal Vesicle		Hyperplasia	Glandular, Diffuse, Moderate
Note: HYPERPLASIA TGLs = 8-8.3			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 429

TRT#: 7

SEX: Male

DAY ON TEST: 612

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin		Basal Cell Adenoma Squamous Cell Carcinoma	Multiple
Note: BASAL CEL ADEN	TGLs = 1,3-13,15		
Note: SQUAM CEL CARC	TGLs = 2-14		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 13,14-3		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 5,6-8,8.1		
Zymbal's Gland		Ectasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 430

TRT#: 7

SEX: Male

DAY ON TEST: 495

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Squamous Cell Papilloma

Note: SQ CL PAPILOM TGLs = 13-10.2

Note: BASAL CEL ADEN TGLs = 12-10.1

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 11-3

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 2,3-8,8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 431

TRT#: 7

SEX: Male

DAY ON TEST: 624

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT	TGLs = 16-7		
Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 5-5		
Liver		Leukemia Mononuclear	
		Regeneration	Multifocal, Marked
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC	TGLs = 6,7-3.1		
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-14		
Note: LEUKEMIA MONUC	TGLs = 15-17		
Mesentery	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 431

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Moribund

DAY ON TEST: 624
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NECROSIS TGLs = 4-13

Pituitary Gland
Preputial Gland
Skin

Leukemia Mononuclear
Adenoma
Basal Cell Adenoma
Squamous Cell Papilloma

Note: [SQ CL PAPILOM] TGLs = 12-15

Note: BASAL CEL ADEN TGLs = 13-16

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 14-3

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 2,3-8,8.1

Thyroid Gland

C Cell

Carcinoma

Note: CARCINOMA TGLs = 9-2

Zymbal's Gland

Ectasia

Moderate

Note: ECTASIA TGLs = 11

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 432

TRT#: 7

SEX: Male

DAY ON TEST: 613

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 6-5			
Liver		Eosinophilic Focus	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7,8-3.1			
Note: ML IS STAGE 2..			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 11-4			
Pharynx	Palate	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 13-14			
Preputial Gland		Ectasia	Moderate
Note: ECTASIA TGLs = 1-8.2			
Skin		Basal Cell Adenoma	Multiple
		Basal Cell Carcinoma	
		Squamous Cell Papilloma	Multiple
Note: BASAL CEL ADEN TGLs = 16,18,20-17,19,21			
Note: BASAL CEL CARC TGLs = 17-18			
Note: SQ CL PAPILOM TGLs = 15,19-16,20			
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 432

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Moribund

DAY ON TEST: 613
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 2,3,4-8.1,8
Thyroid Gland
Zymbal's Gland

C Cell

Hyperplasia
Adenoma
Carcinoma

Focal, Minimal

Note: CARCINOMA TGLs = 12-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 433

TRT#: 7

SEX: Male

DAY ON TEST: 565

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Bone Marrow		Hyperplasia	Moderate
Brain		Inflammation	Acute, Multifocal, Mild
Epididymis	Bilateral	Mesothelioma Malignant	Metastatic (Testes)
Heart		Cardiomyopathy	Chronic, Moderate
		Embolus	Moderate
		Inflammation	Acute, Multifocal, Mild
Note: LARGE BACTERIAL EMBOLUS IN VENTRICULAR CHAMBER..			
Intestine Large	Rectum	Inflammation	Acute, Multifocal, Mild
Kidney		Inflammation	Acute, Multifocal, Moderate
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
	Centrilobular	Degeneration	Diffuse, Moderate
		Hematopoietic Cell Proliferation	Minimal
Lung		Hemorrhage	Moderate
		Hyperplasia	Lymphoid, Mild
Preputial Gland		Adenoma	
Note: OPPOSING GLAND IS MISSING..			
Note: ADENOMA TGLs = 1-8.2			
Skin		Basal Cell Adenoma	
		Basal Cell Carcinoma	
		Squamous Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 433

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Dead

DAY ON TEST: 565
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: BASAL CEL CARC TGLs = 3-14
Note: BASAL CEL ADEN TGLs = 2-13
Note: SQUAM CEL CARC TGLs = 4-15

Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Bilateral, Interstit Cell Bilateral	Adenoma Mesothelioma Malignant	
Note: ADENOMA	TGLs = 5,6-8,8.1		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 434

TRT#: 7

DOSE: 0.25

SEX: Male

DISP: Dead

DAY ON TEST: 561

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Esophagus

Intestine Small - Duodenum

Lymph Node - Mandibular

Pancreas

Salivary Glands

Trachea

Bone Marrow

Intestine Large - Cecum

Intestine Small - Ileum

Lymph Node - Mesenteric

Parathyroid Gland

Seminal Vesicle

Urinary Bladder

Brain

Intestine Large - Colon

Intestine Small - Jejunum

Mammary Gland

Pituitary Gland

Thymus

Zymbal's Gland

Epididymis

Intestine Large - Rectum

Islets, Pancreatic

Nose

Prostate

Thyroid Gland

OBSERVATIONS

Adrenal Gland

Bilateral, Medulla

Pheochromocytoma Benign

Heart

Atrium

Cardiomyopathy

Chronic, Mild

Thrombosis

Note: THROMBUS TGLs = 10-3

Kidney

Nephropathy

Chronic, Mild

Liver

Leukemia Mononuclear

Regeneration

Diffuse, Moderate

Note: ML IS STAGE 1..

Note: REGENERATION TGLs = 11-3.1

Lung

Hyperplasia

Lymphoid, Mild

Infiltration Cellular

Histiocyte, Mild

Hemorrhage

Marked

Lymph Node

Mediastinal

Note: HEMORRHAGE TGLs = 9-14

Mesentery

Fat

Necrosis

Moderate

Note: NECROSIS TGLs = 3-13

Pharynx

Palate

Squamous Cell Papilloma

Note: SQ CL PAPILOM TGLs = 7-12.1

Preputial Gland

Atrophy

Moderate

Skin

Sebaceous Gl

Adenoma

Basal Cell Adenoma

Note: BASAL CEL ADEN TGLs = 12,13-15,16

Spleen

Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 434

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Dead

DAY ON TEST: 561
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 5-3			
Stomach	Glandular	Erosion	Focal, Mild
	Forestomach	Hyperplasia	Focal, Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-8,8.1			
Tongue		Squamous Cell Papilloma	
Note: SQ CL PAPILLOM TGLs = 14-17			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 435

TRT#: 7

SEX: Male

DAY ON TEST: 583

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Prostate
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Thymus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Seminal Vesicle
Thyroid Gland

Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Preputial Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow
Heart
Kidney
Liver

Hyperplasia
Cardiomyopathy
Nephropathy
Eosinophilic Focus
Hematopoietic Cell Proliferation
Neoplastic Nodule
Vacuolization Cytoplasmic

Moderate
Chronic, Mild
Chronic, Moderate
Mild
Minimal
Multifocal, Minimal

Note: NEOPLASTIC NOD TGLs = 1-3.1

Lung
Skin

Alveolar/Bronchiolar Adenoma
Basal Cell Adenoma

Multiple

Note: BASAL CEL ADEN TGLs = 3,4-13,14

Spleen

Hematopoietic Cell Proliferation

Mild

Testes

Bilateral, Interstit Cell

Adenoma

Zymbal's Gland

Carcinoma

Note: CARCINOMA TGLs = 2-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 436

TRT#: 7

DOSE: 0.25

SEX: Male

DISP: Moribund

DAY ON TEST: 502

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Epididymis

Intestine Small - Duodenum

Lymph Node - Mesenteric

Parathyroid Gland

Seminal Vesicle

Thymus

Adrenal Gland - Medulla

Esophagus

Intestine Small - Ileum

Mammary Gland

Pituitary Gland

Spleen

Thyroid Gland

Bone Marrow

Intestine Large - Cecum

Intestine Small - Jejunum

Nose

Prostate

Stomach - Forestomach

Trachea

Brain

Intestine Large - Rectum

Islets, Pancreatic

Pancreas

Salivary Glands

Stomach - Glandular

Urinary Bladder

OBSERVATIONS

Heart

Intestine Large

Note: POLYP ADENOMAT TGLs = 2-7.1

Note: [NECROSIS] TGLs = 1-7.1

Kidney

Liver

Note: VACUOLIZ CYTO TGLs = 5,6-3.1,3.2

Lung

Lymph Node

Note: HYPERPLASIA TGLs = 4-9

Pharynx

Note: SQ CL PAPILOM TGLs = 7-12,13

Preputial Gland

Skin

Colon

Colon

Colon, Descend Colon

Mandibular

Palate

Subcut Tiss

Hair Follicle

Cardiomyopathy

Necrosis

Parasite Metazoan

Polyp Adenomatous

Nephropathy

Basophilic Focus

Eosinophilic Focus

Hematopoietic Cell Proliferation

Regeneration

Vacuolization Cytoplasmic

Hyperplasia

Hyperplasia

Squamous Cell Papilloma

Ectasia

Basal Cell Adenoma

Carcinoma

Hyperplasia

Chronic, Mild

Moderate

Moderate

Chronic, Mild

Mild

Mild

Mild

Focal, Moderate

Multifocal, Moderate

Lymphoid, Mild

Reticulum Cell, Moderate

Moderate

Metastatic (Zymbal'S Gland)

Basal Cell, Multifocal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 436

TRT#: 7

SEX: Male

DAY ON TEST: 502

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: BASAL CEL ADEN TGLs = 3-10.1

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 9-8,8.1

Zymbal's Gland

Carcinoma

Note: CARCINOMA TGLs = 8-10.2

Note: CARCINOSARCOMA MORE APTLY DESCRIBES THIS NEOPLASM..

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 437

TRT#: 7

SEX: Male

DAY ON TEST: 659

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Moderate
Heart	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Focal, Moderate
		Leukemia Mononuclear	
		Necrosis	Mild
		Regeneration	Multifocal, Moderate
Note: REGENERATION	TGLs = 5-3.1		
Note: LEUKEMIA MONUC	TGLs = 6-3.1		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-4.1		
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Nose		Fungus	Moderate
		Inflammation	Acute, Mild
Preputial Gland		Adenoma	
		Ectasia	Moderate
Note: ADENOMA	TGLs = 1-8.2		
Note: ECTASIA	TGLs = 2-8.2		
Skin	Sebaceous GI	Adenoma	
		Basal Cell Adenoma	Multiple
		Cyst Epithelial Inclusion	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 437

TRT#: 7

SEX: Male

DAY ON TEST: 659

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: BASAL CEL ADEN TGLs = 11,13,14-15,17,18

Note: [CYST EPITH INC] TGLs = 10-14

Note: ADENOMA TGLs = 12-16

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 15-3

Stomach

Forestomach

Acanthosis

Moderate

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 3,4-8,8.1

Thyroid Gland

C Cell

Adenoma

Note: ADENOMA TGLs = 9-2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 438

TRT#: 7

SEX: Male

DAY ON TEST: 372

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Prostate
Stomach - Forestomach
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Skin
Testes
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Preputial Gland
Spleen
Thymus

MISSING

Seminal Vesicle

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Clear Cell Focus
Eosinophilic Focus
Granuloma
Hyperplasia
Fungus
Carcinoma
Hypertrophy

Chronic, Minimal
Chronic, Minimal
Mild
Mild
Minimal
Minimal
Lymphoid, Mild
Moderate
Diffuse, Moderate

Lung
Nose
Zymbal's Gland

Note: CARCINOMA TGLs = 1-10.1
Note: HYPERTROPHY TGLs = 2-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 439

TRT#: 7

SEX: Male

DAY ON TEST: 452

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-5		
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-3.1		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-4,4.1		
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8,9,10-6.1,7,9		
Pharynx	Palate	Hyperkeratosis	Focal, Mild
Note: HYPERKERATOSIS	TGLs = 12-13		
Preputial Gland		Adenoma	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1,2-3		
Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 439

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Dead

DAY ON TEST: 452
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Interstit Cell

Hyperplasia

Mild

Note: ADENOMA TGLs = 13-8
Zymbal's Gland

Ectasia
Hyperplasia

Mild
Squamous, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 440

TRT#: 7

SEX: Male

DAY ON TEST: 656

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Nose

OBSERVATIONS

Kidney		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Cyst	
		Hepatocellular Carcinoma	
		Infarct	Focal, Mild
		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
		Regeneration	Multifocal, Marked
<p>Note: HEPATOCLR CARC TGLs = 3-3.3</p> <p>Note: ML IS STAGE 1..</p> <p>Note: CYST TGLs = 6-3.2</p> <p>[Regeneration TGLS = 4-3.2]</p>			
Pharynx			
<p>Note: NODULE IN PALATE IS MISSING..</p>			
Pituitary Gland	Pars Distalis	Adenoma	
<p>[Adenoma TGLS = 8-2]</p>			
Skin		Basal Cell Adenoma	Multiple
		Basal Cell Carcinoma	
<p>Note: BASAL CEL CARC TGLs = 11-15</p> <p>Note: BASAL CEL ADEN TGLs = 10,12-14,16</p>			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 440

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Moribund

DAY ON TEST: 656
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen	Atrophy	Moderate
Testes	Atrophy	Marked
Note: ATROPHY TGLs = 2-8,8.1		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 441

TRT#: 7

SEX: Male

DAY ON TEST: 449

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone Marrow

Brain

Epididymis

Esophagus

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lymph Node - Mandibular

Lymph Node - Mesenteric

Mammary Gland

Nose

Pancreas

Parathyroid Gland

Pituitary Gland

Prostate

Salivary Glands

Seminal Vesicle

Skin

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

OBSERVATIONS

Heart

Cardiomyopathy

Chronic, Minimal

Atrium

Thrombosis

Note: THROMBUS TGLs = 13-3

Intestine Large

Cecum

Necrosis

Focal, Mild

Kidney

Renal Tubule

Degeneration

Moderate

Liver

Centrilobular

Degeneration

Diffuse, Moderate

Eosinophilic Focus

Minimal

Infarct

Subacute, Marked

Vacuolization Cytoplasmic

Focal, Minimal

Note: INFARCT TGLs = 6-3.1

Note: DEGEN TGLs = 5-3.1

Lung

Hyperplasia

Lymphoid, Mild

Pharynx

Palate

Hyperkeratosis

Focal, Minimal

Note: HYPERKERATOSIS TGLs = 14-12

Preputial Gland

Hyperplasia

Squamous, Focal, Moderate

Note: HYPERPLASIA TGLs = 3-8.2

Spleen

Hematopoietic Cell Proliferation

Marked

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 2,12-8,8.1

Zymbal's Gland

Carcinoma

Note: CARCINOMA TGLs = 9-10.1

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 441

TRT#: 7

SEX: Male

DAY ON TEST: 449

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 442

TRT#: 7

SEX: Male

DAY ON TEST: 460

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Seminal Vesicle
Thymus

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pituitary Gland
Skin
Thyroid Gland

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

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Eosinophilic Focus
Mixed Cell Focus
Vacuolization Cytoplasmic

Chronic, Mild
Chronic, Mild
Mild
Mild
Marked
Multifocal, Mild

Note: VACUOLIZ CYTO TGLs = 2,3-3.1

Note: HYPERBASOPHILIA WITH "PATCHY" STAINING..

Lung
Nose

Hyperplasia
Fungus
Hyperkeratosis
Inflammation
Atrophy
Ectasia

Lymphoid, Moderate
Moderate
Moderate
Acute, Moderate
Mild
Moderate

Pancreas
Preputial Gland

Note: ECTASIA TGLs = 1-8.2

Spleen
Testes

Interstit Cell
Interstit Cell

Hematopoietic Cell Proliferation
Adenoma
Hyperplasia

Moderate
Mild

Note: ADENOMA TGLs = 6-8

Zymbal's Gland

Note: CARCINOMA TGLs = 4-10.1

Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 443

TRT#: 7

SEX: Male

DAY ON TEST: 570

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

MISSING

Prostate	Thymus
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OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Multifocal, Mild
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Mild
Heart	Atrium	Thrombosis	
Note: THROMBUS	TGLs = 9-3		
Kidney		Nephropathy	Chronic, Marked
Liver		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Moderate
		Neoplastic Nodule	Multiple
		Regeneration	Diffuse, Moderate
Note: NEOPLASTIC NOD	TGLs = 15,16-3.1,3.2		
Note: EOSIN FOCUS	TGLs = 14-3.1		
Lung		Infiltration Cellular	Histiocyte, Marked
Note: INFILTRAT CELL	TGLs = 11,12-4.4.1		
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 17-12.1		
Preputial Gland		Adenoma	
		Inflammation	Chronic, Moderate
Note: [ADENOMA]	TGLs = 4-8.2		
Seminal Vesicle		Inflammation	Chronic Active, Moderate
Skin		Basal Cell Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 443	TRT#: 7	SEX: Male	DAY ON TEST: 570
	DOSE: 0.25	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

	Subcut Tiss	Basal Cell Carcinoma	
	Subcut Tiss	Edema	Moderate
		Fibroma	
		Squamous Cell Carcinoma	

Note: FIBROMA TGLs = 23-20
 Note: BASAL CEL ADEN TGLs = 20,22,18-17,19,21
 Note: BASAL CEL CARC TGLs = 19-16
 Note: FIBROMA TGLs = 23-20
 Note: SQUAM CEL CARC TGLs = 21-18
 Note: SQUAM CEL CARC TGLs = 21-18
 Note: EDEMA TGLs = 3-13

Spleen		Hematopoietic Cell Proliferation	Marked
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 5,6-8,8.1		
Thyroid Gland	C Cell	Adenoma	
Zymbal's Gland		Ectasia	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 444

TRT#: 7

SEX: Male

DAY ON TEST: 506

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Salivary Glands
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Skin
Thymus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Prostate
Spleen
Thyroid Gland

OBSERVATIONS

Heart
Kidney
Liver

Note: EOSIN FOCUS TGLs = 4-3.1
Lung
Lymph Node
Note: HYPERPLASIA TGLs = 3-9
Pharynx
Note: SQ CL PAPILLOM TGLs = 5-13
Preputial Gland

Note: ADENOMA TGLs = 2-8.2
Note: ECTASIA TGLs = 1-8.2
Testes
Zymbal's Gland
Note: CARCINOMA TGLs = 6-10.1

Cardiomyopathy
Nephropathy
Basophilic Focus
Eosinophilic Focus
Hematopoietic Cell Proliferation

Hyperplasia
Hyperplasia

Squamous Cell Papilloma

Adenoma
Ectasia

Adenoma
Carcinoma

Chronic, Minimal
Chronic, Mild
Minimal
Moderate
Minimal

Lymphoid, Mild
Lymphoid, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 445

TRT#: 7

SEX: Male

DAY ON TEST: 465

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Mammary Gland

OBSERVATIONS

Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Hematopoietic Cell Proliferation	Mild
Note: MILD HYPERBASOPHILIA..			
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Preputial Gland		Hyperplasia	Focal, Moderate
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN TGLs = 1-10.1			
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 4-3			
Testes	Interstit Cell	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 446

TRT#: 7

SEX: Male

DAY ON TEST: 520

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Carcinoma	Metastatic (Zymbal'S Gland)
Note: CARCINOMA TGLs = 3,7-3			
Liver		Degeneration	Cystic, Focal, Moderate
Lung		Carcinoma	Metastatic (Zymbal'S Gland), Multiple (Zymbal'S Gland)
Note: CARCINOMA TGLs = 4-4,4.1			
Lymph Node	Mandibular, Mediastinal	Carcinoma	Metastatic (Zymbal'S Gland), Multiple (Zymbal'S Gland)
Note: CARCINOMA TGLs = 2-9			
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 6-13			
Preputial Gland		Ectasia	Moderate
		Hyperplasia	Squamous, Focal, Moderate
		Basal Cell Adenoma	
Skin			
Note: BASAL CEL ADEN TGLs = 1-10.1			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: ADENOMA TGLs = 8-8			
Thymus		Carcinoma	Metastatic (Zymbal'S Gland)
Zymbal's Gland		Carcinoma	
Note: CARCINOSARCOMA IS A MORE APPROPRIATE DX..			
Note: CARCINOMA TGLs = 5-10			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 446

TRT#: 7

SEX: Male

DAY ON TEST: 520

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 447

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Moribund

DAY ON TEST: 565
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM BGN TGLs = 4-2.1			
Bone Marrow		Hyperplasia	Moderate
Heart	Atrium	Cardiomyopathy	Chronic, Moderate
		Thrombosis	
Note: CARDIOMYOPATHY TGLs = 8-3			
Note: THROMBUS TGLs = 7-3			
Kidney		Nephropathy	Chronic, Moderate
Liver	Centrilobular	Basophilic Focus	Marked
		Degeneration	Diffuse, Moderate
		Degeneration	Cystic, Focal, Moderate
		Hematopoietic Cell Proliferation	Mild
		Necrosis	Multifocal, Moderate
Note: DEGEN TGLs = 5,6-3.1			
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLs = 9,10-4,4.1]			
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 12-12.1			
Preputial Gland		Atrophy	Moderate
Skin		Basal Cell Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 447

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Moribund

DAY ON TEST: 565
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: BASAL CEL CARC TGLs = 1-13
Note: BASAL CEL ADEN TGLs = 2-14
Spleen
Testes
Note: ADENOMA TGLs = 3-8,8.1
Zymbal's Gland

Bilateral, Interstit Cell

Basal Cell Carcinoma

Hematopoietic Cell Proliferation
Adenoma

Moderate

Ectasia
Hyperplasia

Moderate
Squamous, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 448

TRT#: 7

DOSE: 0.25

SEX: Male

DISP: Dead

DAY ON TEST: 543

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland Note: VACUOLIZ CYTO TGLs = 5-2	Cortex	Vacuolization Cytoplasmic	Diffuse, Moderate
Bone Marrow		Hyperplasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Liver Note: DEGEN TGLs = 11-3.1	Centrilobular	Degeneration Hematopoietic Cell Proliferation	Diffuse, Mild Moderate
Lung		Squamous Cell Carcinoma	Metastatic (Skin), Multiple (Skin)
Mesentery Note: NECROSIS TGLs = 4-	Fat	Necrosis	Moderate
Preputial Gland		Atrophy	Moderate
Prostate		Inflammation	Chronic Active, Moderate
Skin Note: SQUAM CEL CARC TGLs = 13,14-10.2,10.3		Squamous Cell Carcinoma	Multiple
Spleen Note: PREDOM. GRANULOPOESIS.. [Hematopoietic Cell Proliferation TGLS = 7-3]		Hematopoietic Cell Proliferation	Marked
Stomach	Glandular	Erosion	Multifocal, Mild
Testes Note: ADENOMA TGLs = 1,2-8,8.1	Bilateral, Interstit Cell	Adenoma	
Zymbal's Gland		Carcinoma Ectasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 448

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Dead

DAY ON TEST: 543
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [CARCINOMA] TGLs = 12-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 449

TRT#: 7

SEX: Male

DAY ON TEST: 539

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
		Regeneration	Multifocal, Marked
Note: LEUKEMIA MONUC	TGLs = 1-3.1		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5,8-6,9		
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 4-13		
Preputial Gland		Atrophy	Moderate
Note: ATROPHY	TGLs = 7-8.2		
Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 2-10.1		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-3		
Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 449

TRT#: 7
DOSE: 0.25

SEX: Male
DISP: Dead

DAY ON TEST: 539
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 6-8,8.1
Zymbal's Gland

Hyperplasia

Squamous, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 450

TRT#: 7

SEX: Male

DAY ON TEST: 568

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Multifocal, Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Moderate
Intestine Small	Jejunum	Adenocarcinoma	Cystic, Mucinous
Note: ADENOCARC TGLs = 16-6.1			
Note: APPEARS TO HAVE ARISEN IN AN ADENOMATOUS POLYP..			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
		Leukemia Mononuclear	
Liver			
Note: LEUKEMIA MONUC TGLs = 7,8-3.1			
Note: ML IS STAGE 2..			
Lung		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
		Squamous Cell Carcinoma	Metastatic (Skin), Multiple (Skin)
Note: SQUAM CEL CARC TGLs = 6-4.2			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 17-19			
Note: LEUKEMIA MONUC TGLs = 1-9			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 450

TRT#: 7

SEX: Male

DAY ON TEST: 568

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 4-7

Note: LEUKEMIA MONUC TGLs = 5-13

Pancreas

Pharynx

Note: SQ CL PAPILLOM TGLs = 10-12.1

Preputial Gland

Skin

Note: BASAL CEL ADEN TGLs = 12,13-16,17

Note: SQUAM CEL CARC TGLs = 9,11,14-14,15,18

Spleen

Note: LEUKEMIA MONUC TGLs = 15-3.2

Testes

Note: ATROPHY TGLs = 2-8

Note: ADENOMA TGLs = 3-8.1

Zymbal's Gland

Palate

Atrophy

Squamous Cell Papilloma

Atrophy

Basal Cell Adenoma

Squamous Cell Carcinoma

Leukemia Mononuclear

Adenoma

Atrophy

Ectasia

Mild

Moderate

Multiple

Multiple

Marked

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 91 TRT#: 2 SEX: Female DAY ON TEST: 676
DOSE: CONTROL DISP: Dead HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lymph Node - Mandibular	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Moderate
	Cortex	Vacuolization Cytoplasmic	Focal, Moderate
Bone	Sternum	Osteopetrosis	Moderate
Clitoral Gland		Ectasia	Marked
Note: ECTASIA TGLs = 2-8			
Heart		Cardiomyopathy	Chronic, Mild
Liver		Basophilic Focus	Mild
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Skin	Subcut Tiss	Fibroma	
		Hyperkeratosis	Focal, Mild
Note: FIBROMA TGLs = 1-13			
Spleen		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 92

TRT#: 2

SEX: Female

DAY ON TEST: 682

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Skin
Thymus
Zymbal's Gland

Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Spleen
Thyroid Gland

OBSERVATIONS

Adrenal Gland Medulla
[Pheochromocytoma Benign TGLS = 3-2]

Pheochromocytoma Benign

Clitoral Gland
Heart
Kidney
Note: NEPHROPATHY TGLs = 2-5

Ectasia
Cardiomyopathy
Nephropathy

Moderate
Chronic, Mild
Chronic, Moderate

Liver

Lung
Lymph Node
Pancreas
Uterus
Note: CYST TGLs = 1-8

Basophilic Focus
Vacuolization Cytoplasmic
Hyperplasia
Hyperplasia
Atrophy
Cyst

Minimal
Multifocal, Minimal
Lymphoid, Mild
Reticulum Cell, Moderate
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 93

TRT#: 2

SEX: Female

DAY ON TEST: 682

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Skin
Thymus
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Spleen
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Clear Cell Focus

Chronic, Mild
Mild
Minimal

Lung
Lymph Node
Pancreas
Thyroid Gland
Tongue

Mesenteric
C Cell

Hyperplasia
Hyperplasia
Atrophy
Adenoma
Squamous Cell Papilloma

Lymphoid, Mild
Reticulum Cell, Moderate
Mild

Note: SQ CL PAPILOM TGLs = 1-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 94

TRT#: 2

SEX: Female

DAY ON TEST: 682

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thymus
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Ovary
Skin
Thyroid Gland
Zymbal's Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Stomach - Forestomach
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Heart
Kidney
Liver
Note: ML IS STAGE 2..

Cardiomyopathy
Nephropathy
Leukemia Mononuclear

Chronic, Mild
Chronic, Mild

Mammary Gland
Note: ECTASIA TGLs = 1-10

Duct

Ectasia

Moderate

Pituitary Gland
[Cyst TGLS = 2-2]

Pars Distalis

Cyst

Spleen
Zymbals GI
Note: ONE GLAND IS PRESENT..

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 95	TRT#: 2 DOSE: CONTROL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 682 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Ear
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 - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Zymbal's Gland	

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
Clitoral Gland		Hyperplasia	Focal, Moderate
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Minimal
Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	Multiple
Note: ECTASIA	TGLs = 3-10		
Note: FIBROADENOMA	TGLs = 1,4,5-13,14,15		
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-2]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 96	TRT#: 2 DOSE: CONTROL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 682 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland
Nose	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Minimal
		Granuloma	Mild
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Ovary		Cyst	
Note: CYST	TGLs = 1-8		
Pancreas		Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 2-2]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 97	TRT#: 2 DOSE: CONTROL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 682 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Kidney		Nephropathy	Chronic, Mild
Liver		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB TGLs = 2-3.1			
Lung		Hyperplasia	Lymphoid, Mild
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-10			
Pancreas		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-2			

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 98

TRT#: 2

SEX: Female

DAY ON TEST: 682

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Stomach - Glandular
Uterus

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Skin
Thymus
Zymbal's Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Trachea

OBSERVATIONS

Kidney
Liver
Lung
Mammary Gland
 Note: ECTASIA TGLs = 1-10
Thyroid Gland

 [Carcinoma TGLS = 2,3-2]

Duct

C Cell
C Cell

Nephropathy
Granuloma
Hyperplasia
Ectasia

Adenoma
Carcinoma

Chronic, Mild
Mild
Lymphoid, Mild
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 99

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 682
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Medulla	Hemorrhage	Marked
Brain		Compression	
Note: COMPRESSION	TGLs = 2-1		
Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-8		
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
		Leukemia Mononuclear	
Note: ML IS STAGE 1..			
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Hyperplasia	Lymphoid, Mild
Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	
Note: ECTASIA	TGLs = 4-10		
Note: FIBROADENOMA	TGLs = 5-13		
Nose		Inflammation	Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-2		
Skin	Subcut Tiss	Fibroma	
Note: [FIBROMA]	TGLs = 6-14		
Spleen		Leukemia Mononuclear	
Zymbal's Gland		Ectasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 99

TRT#: 2

SEX: Female

DAY ON TEST: 682

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 100

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 682
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Bone	Sternum	Osteopetrosis	Mild
Clitoral Gland		Adenoma	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
Lung		Hyperplasia	Lymphoid, Mild
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-10		
Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 2-2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 101

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 682
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB TGLs = 4-3.1			
Lung		Hyperplasia	Lymphoid, Minimal
Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	
Note: ECTASIA TGLs = 2-10			
Note: FIBROADENOMA TGLs = 1-13			
Mesentery		Adenocarcinoma	Metastatic (Uterus)
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-2]			
Uterus		Adenocarcinoma	
Note: ADENOCARC TGLs = 3-8			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 102

TRT#: 2

SEX: Female

DAY ON TEST: 292

DOSE: CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Ovary
Salivary Glands
Thymus
Uterus

OBSERVATIONS

Lung
Lymph Node
Skin
Note: FIBROMA TGLs = 1-10.1

Mesenteric
Subcut Tiss

Hyperplasia
Hyperplasia
Fibroma

Lymphoid, Mild
Reticulum Cell, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 103

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 682
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Zymbal's Gland			

OBSERVATIONS

Bone	Sternum	Osteopetrosis	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Granuloma	Moderate
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mediastinal	Erythrophagocytosis	Moderate
Note: ERYTHROPHAGOCY TGLs = 7-16			
Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	Multiple
		Galactocele	
Note: FIBROADENOMA TGLs = 3,4-14,15			
Note: GALACTOCELE TGLs = 2-13			
Note: ECTASIA TGLs = 1-10			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-2]			
Urinary Bladder		Pigmentation	Hemosiderin, Mild
Uterus		Polyp Stromal	Multiple
Note: POLYP STROMAL TGLs = 5,6-8.1,8.2			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 104

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 682
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Brain		Compression	
[Compression TGLS = 3-1]			
Clitoral Gland		Ectasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Diffuse, Moderate
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland		Ectasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 4-2]			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-3			
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Inflammation	Chronic, Moderate
Uterus	Endometrium	Cyst	
Note: CYST TGLs = 1-8			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 105

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 682
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Bone	Sternum	Osteopetrosis	Moderate
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 3-5			
Liver		Basophilic Focus	Mild
Lung		Hyperplasia	Lymphoid, Mild
Ovary		Cyst	
Note: CYST TGLs = 1-8			
Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 4,5-2]			
Uterus	Cervix	Fibrosis	Mild
Note: FIBROSIS TGLs = 2-8.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 106

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 682
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Bone	Sternum	Osteopetrosis	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Islets, Pancreatic		Carcinoma	
Note: CARCINOMA	TGLs = 3-6.1		
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
		Granuloma	Minimal
Lung		Hyperplasia	Lymphoid, Mild
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	Multiple
Note: FIBROADENOMA	TGLs = 2,5-14,10		
Note: [ADENOCARC]	TGLs = 1-13		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-2		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 107

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 682
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver		Hematopoietic Cell Proliferation	Minimal
Lung		Hyperplasia	Lymphoid, Mild
Mammary Gland		Adenocarcinoma	
		Fibroadenoma	
Note: ADENOCARC TGLs = 1-13			
Note: FIBROADENOMA TGLs = 1-13			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-2]			
Thyroid Gland	C Cell	Adenoma	
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 108	TRT#: 2	SEX: Female	DAY ON TEST: 683
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus	Zymbal's Gland	

MISSING

Parathyroid Gland	Pituitary Gland	Thyroid Gland
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OBSERVATIONS

Bone	Sternum	Osteopetrosis	Moderate
Clitoral Gland		Adenoma	
		Ectasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Clear Cell Focus	Minimal
Lung		Hyperplasia	Lymphoid, Mild
Mammary Gland	Duct	Ectasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 109

TRT#: 2

SEX: Female

DAY ON TEST: 683

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Skin
Thymus
Uterus

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Thyroid Gland
Zymbal's Gland

OBSERVATIONS

Kidney
Liver
Lung
Ovary

Nephropathy
Basophilic Focus
Hyperplasia
Cyst

Chronic, Mild
Mild
Lymphoid, Mild

Note: CYST TGLs = 1-8

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 110

TRT#: 2

SEX: Female

DAY ON TEST: 683

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Clitoral Gland Note: ECTASIA TGLs = 2-8		Ectasia	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
Lung		Hyperplasia	Lymphoid, Mild
Mammary Gland Note: FIBROADENOMA TGLs = 1-13		Fibroadenoma	
Thyroid Gland	C Cell	Adenoma	
Uterus Note: POLYP STROMAL TGLs = 3-8		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 111

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 683
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
	Renal Tubule	Pigmentation	Moderate
Liver		Angiectasis	Focal, Mild
		Basophilic Focus	Mild
		Mixed Cell Focus	Minimal
Note: ANGIECTASIS	TGLs = 4-3.1		
Lung		Hyperplasia	Lymphoid, Mild
Mammary Gland		Fibroadenoma	
		Galactocele	
Note: GALACTOCELE	TGLs = 3-10		
Note: FIBROADENOMA	TGLs = 1-13		
Pancreas		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-2]			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 112

TRT#: 2

SEX: Female

DAY ON TEST: 683

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Nose
Skin
Thymus
Uterus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

OBSERVATIONS

Clitoral Gland
Kidney
Liver

Lung
Lymph Node
Mammary Gland
 Note: [ADENOCARC] TGLs = 2-10
Ovary
 Note: CYST TGLs = 1-8
Pituitary Gland
 [Adenoma TGLS = 3-2]

Mesenteric

Pars Distalis

Ectasia
Nephropathy
Basophilic Focus
Clear Cell Focus
Hyperplasia
Hyperplasia
Adenocarcinoma

Cyst

Adenoma

Moderate
Chronic, Mild
Mild
Minimal
Lymphoid, Mild
Reticulum Cell, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 113 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 683
DOSE: CONTROL **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Zymbal's Gland	

OBSERVATIONS

Clitoral Gland	Bilateral	Carcinoma	
Note: CARCINOMA	TGLs = 1,2-13,8		
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
		Granuloma	Mild
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	
Note: ECTASIA	TGLs = 4-10		
Note: FIBROADENOMA	TGLs = 5-14		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-2		
Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 114

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 683
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Kidney Note: NEPHROPATHY TGLs = 3-5		Nephropathy	Chronic, Moderate
Liver		Angiectasis Basophilic Focus	Focal, Moderate Moderate
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Uterus Note: UNUSUAL IN THAT THERE ARE NUMEROUS MITOSES.. Note: LEIOMYOSAR TGLs = 2-8		Leiomyosarcoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 115

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund

DAY ON TEST: 550
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Skin
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Salivary Glands
Thymus
Uterus

OBSERVATIONS

Brain
Note: COMPRESSION TGLs = 3-1
Kidney
Liver
Note: ANOM HEPAT LOB TGLs = 2-3.1
Lung
Ovary
Note: CYST TGLs = 1-8
Pituitary Gland
[Adenoma TGLS = 4-2.1]
Spleen

Pars Distalis

Compression
Nephropathy
Eosinophilic Focus
Hepatodiaphragmatic Nodule
Hyperplasia
Cyst
Adenoma
Pigmentation
Chronic, Mild
Mild
Lymphoid, Mild
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 116

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 683
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Zymbal's Gland	

PRESENT BUT NOT EXAMINED

Ear

OBSERVATIONS

Clitoral Gland		Ectasia Inflammation	Moderate Chronic, Moderate
Note: ECTASIA TGLs = 2-8			
Heart		Cardiomyopathy	Chronic, Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
Lung		Hyperplasia	Lymphoid, Mild
Mammary Gland	Duct	Ectasia	Moderate
Note: ECTASIA TGLs = 1-10			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-2			
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
Uterus	Cervix	Fibrosis	Moderate
Note: FIBROSIS TGLs = 3-13			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 117

TRT#: 2

SEX: Female

DAY ON TEST: 683

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Skin
Thyroid Gland
Zymbal's Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Salivary Glands
Thymus
Uterus

OBSERVATIONS

Adrenal Gland
Clitoral Gl
Note: ONE GLAND IS PRESENT..
Kidney
Liver
Note: ML IS STAGE 2..
Lung
Pituitary Gland
[Adenoma TGLS = 2-2]
Spleen

Cortex

Pars Distalis

Hyperplasia

Nephropathy
Basophilic Focus
Leukemia Mononuclear

Hyperplasia
Adenoma

Leukemia Mononuclear

Focal, Mild

Chronic, Mild
Minimal

Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 118

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund

DAY ON TEST: 669
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Diffuse, Moderate
[Vacuolization Cytoplasmic TGLS = 2-2]			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 3,4-5		
Liver		Vacuolization Cytoplasmic	Multifocal, Moderate
Note: VACUOLIZ CYTO	TGLs = 5,6,7,8-3.1,3.2		
Lung		Hyperplasia	Lymphoid, Mild
Spleen		Atrophy	Moderate
		Pigmentation	Moderate
Stomach	Glandular	Erosion	Multifocal, Mild
	Forestomach	Ulcer	Focal, Marked
Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	
[Carcinoma TGLS = 9-2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 119

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 683
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Mild
Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 1-8		
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Moderate
		Clear Cell Focus	Minimal
Lung		Hyperplasia	Lymphoid, Mild
Mammary Gland	Duct	Ectasia	Moderate
Note: ECTASIA	TGLs = 2-10		
Ovary		Granulosa Cell Tumor Benign	
Pituitary Gland	Pars Distalis	Cyst	Multiple
Note: CYST	TGLs = 3,4-2		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 120

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund

DAY ON TEST: 666
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Skin
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Clitoral Gland
Esophagus
 [Hyperkeratosis TGLS = 2-2]
Kidney
Liver
Lung

Nose

Uterus
 Note: HYDROMETRA TGLs = 1-8

Adenoma
Hyperkeratosis Moderate

Nephropathy Chronic, Mild
Basophilic Focus Mild
Foreign Body Marked
Inflammation Chronic, Marked
Foreign Body Marked
Inflammation Acute, Marked
Hydrometra Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 121

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund

DAY ON TEST: 502
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
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 Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Salivary Glands
Thymus
Zymbal's Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland

OBSERVATIONS

Kidney

Hydronephrosis
Nephropathy
Pigmentation

Mild
Chronic, Moderate
Moderate

Renal Tubule

Note: HYDRONEPHROSIS TGLs = 2-5

Liver

Basophilic Focus
Hematopoietic Cell Proliferation
Hepatodiaphragmatic Nodule

Minimal
Moderate

Note: ANOM HEPAT LOB TGLs = 4-3.1

Lung

Spleen

Uterus

Hyperplasia
Hematopoietic Cell Proliferation
Sarcoma Stromal

Lymphoid, Mild
Marked

Note: SARC STROMAL TGLs = 3-8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 122

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 683
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Mild
Bone	Sternum	Osteopetrosis	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
	Pars Distalis	Cyst	
		Hemorrhage	Moderate
Note: [ANGIECTASIS] TGLs = 4-2			
Note: CYST TGLs = 3-2			
Note: HEMORRHAGE TGLs = 2-2			
Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 123

TRT#: 2

SEX: Female

DAY ON TEST: 683

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Skin
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Kidney
Pancreas
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Thymus
Uterus

OBSERVATIONS

Clitoral Gland
Note: ADENOMA TGLs = 1-14
Note: ONE GLAND IS PRESENT..

Adenoma

Liver
Note: VACUOLIZ CYTO TGLs = 4-3.1
Note: [HEMA CELL PROL] TGLs = 5-3.1

Hematopoietic Cell Proliferation
Vacuolization Cytoplasmic

Minimal
Diffuse, Moderate

Lung
Lymph Node
Mammary Gland
Note: FIBROADENOMA TGLs = 2,6-13,15

Mandibular

Hyperplasia
Hyperplasia
Fibroadenoma

Lymphoid, Mild
Reticulum Cell, Moderate
Multiple

Pituitary Gland
[Cyst TGLS = 3-2]

Pars Distalis

Cyst

Spleen

Hematopoietic Cell Proliferation

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 124

TRT#: 2

SEX: Female

DAY ON TEST: 683

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Granuloma	Mild
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-8		
Pancreas		Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 3-2]			
Uterus	Cervix	Fibrosis	Moderate
Note: FIBROSIS	TGLs = 2-13		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 125

TRT#: 2

SEX: Female

DAY ON TEST: 683

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Ovary
Skin
Thymus
Uterus

OBSERVATIONS

Heart
Kidney
Liver

Lung
Lymph Node
Mammary Gland
 Note: ECTASIA TGLs = 1-10
Pituitary Gland
 [Cyst TGLs = 2-2]

Mesenteric
Duct

Pars Distalis

Cardiomyopathy
Nephropathy
Basophilic Focus
Granuloma
Hyperplasia
Hyperplasia
Ectasia

Cyst

Chronic, Moderate
Chronic, Mild
Mild
Mild
Lymphoid, Mild
Reticulum Cell, Moderate
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 126

TRT#: 2

SEX: Female

DAY ON TEST: 683

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Zymbal's Gland	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 4-2]			
Clitoral Gland		Ectasia	Moderate
Note: ECTASIA	TGLs = 2-8		
Note: ONE GLAND IS PRESENT..			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Angiectasis	Multifocal, Moderate
		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC	TGLs = 7-3.1		
Lung		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 3-8		
Note: SEE SLIDE #8..			
Pituitary Gland	Pars Distalis	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 126

TRT#: 2

SEX: Female

DAY ON TEST: 683

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST TGLs = 8-2

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 5,6-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 127

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund

DAY ON TEST: 659
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	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
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	Zymbal's Gland

MISSING

Thymus

OBSERVATIONS

Clitoral Gland		Ectasia	Moderate
Kidney		Nephropathy	Chronic, Mild
	Renal Tubule	Pigmentation	Marked
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC TGLs = 4-3.1			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-4,4.1			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 8-7.1			
Pancreas		Atrophy	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 6-2]			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-3			
Thyroid Gland	C Cell	Adenoma	
Uterus	Cervix	Cyst	
Note: CYST TGLs = 2-8.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 127

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund

DAY ON TEST: 659
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 128

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Dead

DAY ON TEST: 624
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Clitoral Gland		Ectasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC TGLs = 1-3.1			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-2]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-3]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 129

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Dead

DAY ON TEST: 664
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	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 - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver		Hematopoietic Cell Proliferation	Mild
		Hepatodiaphragmatic Nodule	
	Centrilobular	Necrosis	Diffuse, Moderate
Note: NECROSIS TGLs = 3,4-3.1			
Note: ANOM HEPAT LOB TGLs = 2-3.1			
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC TGLs = 1-13			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-2]			
Skin		Basal Cell Adenoma	
		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 6-14			
Note: BASAL CEL ADEN TGLs = 7-15			
Spleen		Hematopoietic Cell Proliferation	Marked
Stomach	Glandular	Erosion	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 130

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Dead

DAY ON TEST: 500
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Liver	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Bone	Sternum	Osteopetrosis	Moderate
Brain	Cerebrum	Astrocytoma Malignant	
[Astrocytoma Malignant TGLS = 2,3-1]			
Heart		Cardiomyopathy	Chronic, Minimal
Lung		Congestion	Moderate
		Hyperplasia	Lymphoid, Mild

Note: CONGESTION TGLs = 1-4,4.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 131

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 683
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Zybal's Gland		

OBSERVATIONS

Bone	Sternum	Osteopetrosis	Marked
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Granuloma	Minimal
		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB TGLs = 4-3.1			
Lung		Hyperplasia	Lymphoid, Mild
Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	
Note: ECTASIA TGLs = 2-10			
Note: FIBROADENOMA TGLs = 3-14			
Pituitary Gland	Pars Distalis	Cyst	
Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-13			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 132

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 683
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Clitoral Gland Note: ONE GLAND IS PRESENT..			
Kidney Note: NEPHROPATHY TGLs = 2-5		Nephropathy	Chronic, Marked
Liver [Basophilic Focus TGLS = 7-3.1] [Hepatodiaphragmatic Nodule TGLS = 7-3.1]		Angiectasis Basophilic Focus Hepatodiaphragmatic Nodule	Focal, Mild Mild
Lung		Hyperplasia	Lymphoid, Mild
Mammary Gland Note: FIBROADENOMA SUBMITTED AS CLITORAL GLD.. Note: ECTASIA TGLs = 4-10	Duct	Ectasia Fibroadenoma	Moderate
Pituitary Gland [Adenoma TGLS = 3-2]	Pars Distalis	Adenoma	
Skin Note: NEUROFIBROSARC TGLs = 1-13	Subcut Tiss	Neurofibrosarcoma	
Thyroid Gland [Adenoma TGLS = 6-2]	C Cell	Adenoma	
Zymbals GI			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 132

TRT#: 2

SEX: Female

DAY ON TEST: 683

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ONE GLAND IS PRESENT..

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 133

TRT#: 2

SEX: Female

DAY ON TEST: 683

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Ovary
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Nose
Skin
Thymus
Uterus

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Hepatodiaphragmatic Nodule

Chronic, Mild
Minimal

[Hepatodiaphragmatic Nodule TGLS = 3-3.1]

Lung
Lymph Node
Mammary Gland
Note: ECTASIA TGLs = 2-10
Pancreas
Pituitary Gland
Note: CYST TGLs = 1-2

Mesenteric
Duct
Pars Distalis

Hyperplasia
Hyperplasia
Ectasia
Atrophy
Cyst

Lymphoid, Mild
Reticulum Cell, Moderate
Mild
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 134

TRT#: 2

DOSE: CONTROL

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 683

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

OBSERVATIONS

Bone
Clitoral Gland
 Note: HYPERPLASIA TGLs = 3-8
Kidney
Liver

Sternum

Osteopetrosis
Hyperplasia

Nephropathy
Basophilic Focus
Clear Cell Focus
Granuloma
Hepatodiaphragmatic Nodule

Moderate
Focal, Moderate

[Hepatodiaphragmatic Nodule TGLS = 6-]

Lung
Mesentery
 Note: NECROSIS TGLs = 4-14
Uterus
 Note: POLYP STROMAL TGLs = 1-8
Vagina
 Note: [CYST] TGLs = 2-13
 Note: CYST FILLED WITH KERATIN AND CELLULAR DEBRIS.

Fat

Hyperplasia
Necrosis

Polyp Stromal

Cyst

Lymphoid, Mild
Moderate

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 135

TRT#: 2

SEX: Female

DAY ON TEST: 683

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Bone	Sternum	Osteopetrosis	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Angiectasis	Moderate
	Mediastinal	Erythrophagocytosis	Moderate
Note: ERYTHROPHAGOCY TGLs = 3-14			
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 2-13			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 136

TRT#: 2

SEX: Female

DAY ON TEST: 683

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone	Sternum	Osteopetrosis	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
		Granuloma	Mild
Lung		Alveolar/Bronchiolar Adenoma	
		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Minimal
Spleen		Pigmentation	Moderate
Uterus	Endometrium	Cyst	Moderate

Note: [CYST] TGLs = 1-8

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 137

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 683
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thymus
Zymbal's Gland

Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland

OBSERVATIONS

Adrenal Gland
Clitoral Gland
Heart
Kidney
Liver

Cortex

Vacuolization Cytoplasmic
Hyperplasia
Cardiomyopathy
Nephropathy
Basophilic Focus
Hematopoietic Cell Proliferation
Hepatodiaphragmatic Nodule

Multifocal, Mild
Focal, Minimal
Chronic, Mild
Chronic, Moderate
Minimal
Mild

Note: ANOM HEPAT LOB TGLs = 5-3.1
Lung

Hyperplasia
Infiltration Cellular
Adenoma
Hematopoietic Cell Proliferation
Squamous Cell Papilloma

Lymphoid, Mild
Histiocyte, Mild

Pituitary Gland
Spleen
Tongue

Pars Distalis

Note: SQ CL PAPILOM TGLs = 4-14
Uterus

Polyp Stromal

Mild

Note: POLYP IS INFARCTED..
Note: POLYP STROMAL TGLs = 1-8.1
Vagina
Note: [SQUAM CEL CARC] TGLs = 2-13

Squamous Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 138

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 683
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Zymbal's Gland

OBSERVATIONS

Bone	Sternum	Osteopetrosis	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
Mammary Gland	Duct	Ectasia	Mild
Note: ECTASIA	TGLs = 2-10		
Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
	Pars Distalis	Hyperplasia	Focal, Minimal
Note: [HYPERPLASIA]	TGLs = 1-2		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 139

TRT#: 2

SEX: Female

DAY ON TEST: 683

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Clitoral Gland		Hyperplasia	Focal, Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
Lung		Hyperplasia	Lymphoid, Mild
Mammary Gland		Hyperplasia	Multifocal, Mild
Note: HYPERPLASIA TGLs = 1-10			
Thymus		Cyst	
Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 2-2]			
Zymbals GI			
Note: ONE GLAND IS PRESENT..			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 140

TRT#: 2

SEX: Female

DAY ON TEST: 683

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Spleen
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Salivary Glands
Stomach - Glandular
Zymbal's Gland

Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Skin
Thymus

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland
Kidney
Liver
Lung
Ovary
 Note: CYST TGLs = 2-8
Pancreas
Thyroid Gland
Uterus
 Note: CYST TGLs = 3-8

Bilateral, Medulla

C Cell
Cervix

Pheochromocytoma Benign
Nephropathy
Basophilic Focus
Hyperplasia
Cyst

Atrophy
Hyperplasia
Cyst

Chronic, Moderate
Minimal
Lymphoid, Mild

Mild
Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 196

TRT#: 4

SEX: Female

DAY ON TEST: 576

DOSE: 0.063

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Lymph Node - Mandibular	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

MISSING

Clitoral Gland	Intestine Large - Rectum
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OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Hyperplasia	Moderate
Heart		Leukemia Mononuclear	
Intest Small			
Note: COLONIC "NODULE" IS GALT..			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2,3,4-3.1			
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-7			
Note: LEUKEMIA MONUC TGLs = 5-13			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-3.2			
Zymbals GI			
Note: ONE GLAND PRESENT IN THE SECTION..			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 197

TRT#: 4

SEX: Female

DAY ON TEST: 682

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Clitoral Gland	Esophagus
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
Zymbal's Gland			

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla Cortex	Pheochromocytoma Benign Vacuolization Cytoplasmic	Diffuse, Moderate
[Vacuolization Cytoplasmic TGLS = 2-2]			
Heart		Cardiomyopathy	Chronic, Moderate
Intestine Large	Cecum	Edema	Moderate
Note: EDEMA TGLs = 4-7			
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 3-5			
Liver		Angiectasis Eosinophilic Focus Vacuolization Cytoplasmic	Multifocal, Mild Minimal Multifocal, Mild
Note: ANGIECTASIS TGLs = 10,11-3.1			
Lung		Hyperplasia Infiltration Cellular	Lymphoid, Mild Histiocyte, Moderate
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 6-2			
Spleen		Hematopoietic Cell Proliferation	Mild
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 1-8			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 197

TRT#: 4

DOSE: 0.063

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 682

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 198 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 579
DOSE: 0.063 **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Nose	Ovary
Parathyroid Gland	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Bone	Sternum	Osteopetrosis	Moderate
Clitoral Gland		Ectasia	Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-3.1		
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA	TGLs = 2,3-13,14		
Pancreas		Leukemia Mononuclear	
Skin	Sebaceous GI	Carcinoma	
Note: [CARCINOMA]	TGLs = 4-15		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-3.1		
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
Zymbal's Gland		Ectasia	Minimal
		Hyperplasia	Squamous, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 199

TRT#: 4

SEX: Female

DAY ON TEST: 682

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Multifocal, Mild
	Cortex	Hypertrophy	Focal, Mild
Clitoral Gl			
Note: ONE GLAND IS PRESENT..			
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
		Granuloma	Mild
		Hematopoietic Cell Proliferation	Minimal
Lung		Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 6-4,4.1			
Mammary Gland	Duct	Ectasia	Moderate
Note: ECTASIA TGLs = 1-10			
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 4-13			
Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
Note: ANGIECTASIS TGLs = 7-2			
Spleen		Hematopoietic Cell Proliferation	Moderate
Zymbal's Gland		Hyperplasia	Squamous, Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 200

TRT#: 4

SEX: Female

DAY ON TEST: 682

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Mild
	Cortex	Vacuolization Cytoplasmic	Focal, Minimal
Bone	Sternum	Osteopetrosis	Moderate
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
Pharynx	Palate	Hyperplasia	Focal, Mild
Note: HYPERPLASIA TGLs = 2-13			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-2]			
Thymus		Fibrosis	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 201

TRT#: 4

SEX: Female

DAY ON TEST: 558

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Glandular

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Salivary Glands
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Clitoral Gland

Adenoma

Ectasia

Mild

Note: ADENOMA TGLs = 1-8

Kidney

Nephropathy

Chronic, Mild

Liver

Hematopoietic Cell Proliferation

Mild

Lung

Hyperplasia

Lymphoid, Mild

Spleen

Hematopoietic Cell Proliferation

Marked

Tongue

Squamous Cell Papilloma

Note: SQ CL PAPILOM TGLs = 3-13

Uterus

Polyp Stromal

Note: POLYP STROMAL TGLs = 4-8

Zymbal's Gland

Carcinoma

Ectasia

Mild

Note: CARCINOMA TGLs = 2-10,12.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 202

TRT#: 4

SEX: Female

DAY ON TEST: 506

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Clitoral Gland	Bilateral	Carcinoma	
Note: CARCINOMA TGLs = 1-8.1			
Liver		Basophilic Focus	Mild
Lung		Carcinoma	Metastatic (Clitoral Gland)
Note: CARCINOMA TGLs = 9-4			
Mammary Gland		Adenocarcinoma	
Note: ADENOCARC TGLs = 2-10.1			
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 8-13			
Pituitary Gland	Pars Distalis	Cyst	Mild
Note: CYST TGLs = 7-2			
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 3-3			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 203

TRT#: 4

SEX: Female

DAY ON TEST: 682

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

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

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Skin
Thymus

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Trachea

OBSERVATIONS

Kidney
Liver
Lung
Ovary
 Note: CYST TGLs = 1-8
Thyroid Gland
Uterus
 Note: CYST TGLs = 2-8
Vagina
 Note: [CYST] TGLs = 3-13
Zymbal's Gland

C Cell
Endometrium

Nephropathy
Basophilic Focus
Hyperplasia
Cyst

Hyperplasia
Cyst

Cyst

Ectasia

Chronic, Mild
Mild
Lymphoid, Minimal

Focal, Mild
Mild

Moderate

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 204

TRT#: 4

SEX: Female

DAY ON TEST: 682

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Mild
		Granuloma	Mild
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Mammary Gland	Duct	Ectasia	Moderate
Note: ECTASIA	TGLs = 4-10		
Ovary		Cyst	
Note: CYST	TGLs = 3-8		
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Note: [HYPERPLASIA]	TGLs = 5-2		
Spleen		Hematopoietic Cell Proliferation	Mild
Uterus		Polyp Stromal	Multiple
Note: POLYP STROMAL	TGLs = 1,2-8,8.1		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 205

TRT#: 4

SEX: Female

DAY ON TEST: 506

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
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 Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Thymus
Uterus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland
Zymbal's Gland

OBSERVATIONS

Clitoral Gland
Note: CARCINOMA TGLs = 2,3-8.1,8.2

Bilateral

Carcinoma

Liver

Basophilic Focus
Hematopoietic Cell Proliferation

Mild

Lung

Hyperplasia

Minimal

Mesentery

Fat

Necrosis

Moderate

Note: NECROSIS TGLs = 1-13

Spleen

Hematopoietic Cell Proliferation

Moderate

Note: HEMA CELL PROL TGLs = 4-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 206

TRT#: 4

SEX: Female

DAY ON TEST: 682

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Skin
Thymus
Uterus

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Clitoral Gland
Note: ADENOMA TGLs = 1-8

Kidney
Liver

[Hepatodiaphragmatic Nodule TGLS = 4-3.1]

Lung
Lymph Node
Pituitary Gland

[Adenoma TGLS = 2-2]

Tongue
Note: SQUAM CEL CARC TGLs = 3-13
Zymbal's Gland

Adenoma
Nephropathy
Basophilic Focus
Hepatodiaphragmatic Nodule

Hyperplasia
Hyperplasia
Adenoma

Squamous Cell Carcinoma

Ectasia

Chronic, Minimal
Minimal

Lymphoid, Mild
Reticulum Cell, Moderate

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:05

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 207

TRT#: 4

SEX: Female

DAY ON TEST: 568

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Salivary Glands
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Skin
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Ovary
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Stomach - Glandular
Uterus

MISSING

Parathyroid Gland

Thymus

OBSERVATIONS

Liver

Leukemia Mononuclear
Vacuolization Cytoplasmic

Diffuse, Moderate

Note: ML IS STAGE 3..

[Leukemia Mononuclear TGLS = 3-3.1]

Lung

Leukemia Mononuclear

Lymph Node

Mesenteric

Leukemia Mononuclear

Pituitary Gland

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-2]

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 5-3.2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 208

TRT#: 4

SEX: Female

DAY ON TEST: 682

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Clitoral Gland	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Bone Marrow		Necrosis	Multifocal, Moderate
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Eosinophilic Focus	Moderate
		Granuloma	Mild
Note: EOSIN FOCUS TGLs = 4-3.1			
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mandibular	Hyperplasia	Reticulum Cell, Moderate
	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Mammary Gland	Duct	Ectasia	Moderate
Note: ECTASIA TGLs = 3-10			
Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLs = 1-2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 209

TRT#: 4

SEX: Female

DAY ON TEST: 646

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Clitoral Gland		Carcinoma	
Note: CARCINOMA TGLs = 3-8.1			
Eye		Cataract	Mild
	Retina	Degeneration	Moderate
Note: CATARACT TGLs = 2-13			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
	Centrilobular	Degeneration	Diffuse, Mild
		Hematopoietic Cell Proliferation	Mild
Note: DEGEN TGLs = 6-3.1			
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 4-14			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-2]			
Skin	Subcut Tiss	Neurofibroma	
Note: NEUROFIBROMA TGLs = 7-15			
Spleen		Hematopoietic Cell Proliferation	Moderate
Zymbal's Gland		Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 209

TRT#: 4
DOSE: 0.063

SEX: Female
DISP: Moribund

DAY ON TEST: 646
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 210

TRT#: 4

SEX: Female

DAY ON TEST: 682

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Mammary Gland	Nose	Ovary
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Bone	Sternum	Osteopetrosis	Mild
Clitoral Gland		Adenoma	
Eye	Retina	Degeneration	Marked
Note: DEGEN	TGLs = 5-13		
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
		Leukemia Mononuclear	
Note: ML IS STAGE 1..			
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Pancreas		Atrophy	Mild
Pharynx	Palate	Hyperplasia	Focal, Mild
Note: HYPERPLASIA	TGLs = 4-12		
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Minimal
Uterus		Polyp Stromal	
Note: POLYP STROMAL	TGLs = 1,2-8		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 211

TRT#: 4

SEX: Female

DAY ON TEST: 465

DOSE: 0.063

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Diffuse, Mild
Heart		Cardiomyopathy	Chronic, Mild
		Mineralization	Multifocal, Moderate
Kidney	Renal Tubule	Mineralization	Moderate
Liver		Vacuolization Cytoplasmic	Diffuse, Moderate
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mediastinal	Hemorrhage	Marked
Spleen		Atrophy	Moderate
		Pigmentation	Moderate
Stomach	Glandular	Erosion	Diffuse, Moderate
	Glandular	Mineralization	Diffuse, Mild
Zymbal's Gland		Carcinoma	
		Ectasia	Moderate

Note: CARCINOMA TGLs = 1-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 212

TRT#: 4

SEX: Female

DAY ON TEST: 535

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Mesentery	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Tongue	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

MISSING

Clitoral Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
	Renal Tubule	Nephropathy	Chronic, Moderate
		Pigmentation	Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-3.1		
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal, Mesenteric, Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2,8,9,11,14-9,14,9,7,6		
Pituitary Gland	Pars Distalis	Cyst	Mild
		Leukemia Mononuclear	
Note: CYST	TGLs = 10-2		
Skin		Squamous Cell Papilloma	
Note: SQ CL PAPILLOM	TGLs = 1-10.1		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3,4,5-3		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 213

TRT#: 4

SEX: Female

DAY ON TEST: 635

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5,6,7-7,14,15		
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-13		
Ovary		Adenoma	
Note: [ADENOMA]	TGLs = 2-8		
Pancreas		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-3		
Stomach	Forestomach	Acanthosis	Moderate
Thymus		Leukemia Mononuclear	
Uterus		Leukemia Mononuclear	
		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 213

TRT#: 4
DOSE: 0.063

SEX: Female
DISP: Moribund

DAY ON TEST: 635
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: POLYP STROMAL TGLs = 3-8
Note: LEUKEMIA MONUC TGLs = 4-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:05
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 214

TRT#: 4

SEX: Female

DAY ON TEST: 682

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thymus
Uterus

OBSERVATIONS

Clitoral Gland
Note: CARCINOMA TGLs = 1-8
Heart
Kidney
Liver

Lung
Pituitary Gland
[Cyst TGLS = 2-2]
Spleen

Pars Distalis

Carcinoma

Cardiomyopathy
Nephropathy
Basophilic Focus
Granuloma
Hyperplasia
Cyst

Hematopoietic Cell Proliferation

Chronic, Minimal
Chronic, Minimal
Minimal
Mild
Lymphoid, Mild

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 215

TRT#: 4

SEX: Female

DAY ON TEST: 635

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone Marrow

Esophagus

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lymph Node - Mandibular

Lymph Node - Mesenteric

Nose

Ovary

Pancreas

Parathyroid Gland

Salivary Glands

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Trachea

Urinary Bladder

Zymbal's Gland

OBSERVATIONS

Brain

Compression

Note: COMPRESSION TGLs = 3-1

Clitoral Gland

Ectasia

Moderate

Kidney

Nephropathy

Chronic, Mild

Liver

Basophilic Focus

Minimal

Lung

Granuloma

Marked

Mammary Gland

Hyperplasia

Lymphoid, Moderate

Note: ADENOCARC TGLs = 2-13

Adenocarcinoma

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 4-2]

Thyroid Gland

C Cell

Hyperplasia

Focal, Minimal

Uterus

Endometrium

Hyperplasia

Cystic, Moderate

Note: HYPERPLASIA TGLs = 1-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 216

TRT#: 4

SEX: Female

DAY ON TEST: 463

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Diffuse, Moderate
Note: LEUKEMIA MONUC	TGLs = 3-3.1		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-4,4.1		
Ovary		Leukemia Mononuclear	
Pancreas		Atrophy	Mild
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILLOM	TGLs = 6-13		
Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
		Leukemia Mononuclear	
Note: [ANGIECTASIS]	TGLs = 1-2		
Note: LEUKEMIA MONUC	TGLs = 5-2		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-3		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 216

TRT#: 4
DOSE: 0.063

SEX: Female
DISP: Moribund

DAY ON TEST: 463
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 217

TRT#: 4

SEX: Female

DAY ON TEST: 529

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Esophagus	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	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear
	Medulla	Leukemia Mononuclear
Brain		Leukemia Mononuclear
Note: LEUKEMIA MONUC	TGLs = 2-1	
Kidney		Leukemia Mononuclear
Liver		Leukemia Mononuclear
Note: LEUKEMIA MONUC	TGLs = 9-3.1	
Lung		Alveolar/Bronchiolar Adenoma
		Leukemia Mononuclear
Note: [ALV BRON ADEN]	TGLs = 3-4.1	
Lymph Node	Mandibular	Leukemia Mononuclear
	Mediastinal	Leukemia Mononuclear
	Pancreatic	Leukemia Mononuclear
Note: LEUKEMIA MONUC	TGLs = 4,5,7,8-7,6,9	
Spleen		Leukemia Mononuclear
Note: LEUKEMIA MONUC	TGLs = 6-3.1	
Thymus		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 218

TRT#: 4

SEX: Female

DAY ON TEST: 647

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Focal, Minimal
Clitoral Gland	Bilateral	Adenoma	
Note: ADENOMA TGLs = 2-10.1			
Kidney		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-3.1			
Note: ML IS STAGE 3..			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Ectasia	Moderate
Pancreas		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-3			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 219

TRT#: 4

SEX: Female

DAY ON TEST: 653

DOSE: 0.063

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Salivary Glands
Thymus
Uterus

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Kidney
Ovary
Skin
Thyroid Gland
Zymbal's Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Stomach - Forestomach
Trachea

Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Brain
Liver
Lung

Hemorrhage
Basophilic Focus
Congestion
Hyperplasia

Moderate
Mild
Moderate
Lymphoid, Mild

Note: CONGESTION TGLs = 1-4,4.1

Nose

Fungus
Inflammation
Adenoma
Hemorrhage

Acute, Moderate
Marked

Pituitary Gland

Pars Distalis

Note: ADENOMA TGLs = 4-2

Spleen

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 220

TRT#: 4

SEX: Female

DAY ON TEST: 647

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Note: EMBOLUS IN MEDULLA IS PROBABLY ARTIFACT			
Clitoral Gland		Carcinoma	
		Ectasia	Moderate
		Hyperplasia	Squamous, Focal, Mild
Note: CARCINOMA	TGLs = 1-8.1		
Eye		Cataract	Minimal
		Degeneration	Moderate
Note: DEGEN	TGLs = 9-13		
Heart		Cardiomyopathy	Chronic, Mild
		Thrombosis	
Note: THROMBUS	TGLs = 7-3		
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Moderate
Note: PA			
Note: PATCHY BASOPHILIA			
Lung		Carcinoma	Metastatic (Uncertain Primary Site)
		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 220

TRT#: 4
DOSE: 0.063

SEX: Female
DISP: Moribund

DAY ON TEST: 647
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PRIMARY- SITE IS CLITORAL GLAND Note: CARCINOMA TGLs = 6-4.1	Pleura	Mesothelioma Malignant	
Ovary Note: CYST TGLs = 4-8		Cyst	
Spleen Note: HEMA CELL PROL TGLs = 3-3		Hematopoietic Cell Proliferation	Marked
Uterus Note: CYST TGLs = 5-8	Endometrium	Cyst	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 221

TRT#: 4

SEX: Female

DAY ON TEST: 682

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Forestomach
Tissue NOS

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Salivary Glands
Stomach - Glandular
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Skin
Thymus
Urinary Bladder

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Angiectasis
Basophilic Focus
Granuloma

Chronic, Mild
Chronic, Mild
Focal, Mild
Minimal
Mild

Note: ANGIECTASIS TGLs = 5-3.1

Lung
Lymph Node
Ovary

Mesenteric

Hyperplasia
Hyperplasia
Cyst

Lymphoid, Mild
Reticulum Cell, Moderate

Note: CYST TGLs = 2-8

Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 6-2]

Uterus

Polyp Stromal

Note: POLYP STROMAL TGLs = 4-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 222

TRT#: 4

SEX: Female

DAY ON TEST: 683

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Rectum
Islets, Pancreatic
Nose
Skin
Thymus
Uterus

MISSING

Parathyroid Gland

OBSERVATIONS

Bone
Clitoral Gland
Heart
Kidney
Liver

Sternum

Osteopetrosis
Adenoma
Cardiomyopathy
Nephropathy
Angiectasis
Basophilic Focus
Clear Cell Focus

Mild
Chronic, Minimal
Chronic, Mild
Multifocal, Mild
Mild
Minimal

Note: ANGIECTASIS TGLs = 2-3.1

Lung

Alveolar/Bronchiolar Adenoma
Hyperplasia
Cyst

Lymphoid, Mild

Pituitary Gland

Pars Distalis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 223

TRT#: 4

SEX: Female

DAY ON TEST: 540

DOSE: 0.063

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Skin
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Kidney
Pancreas
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Thymus
Zymbal's Gland

OBSERVATIONS

Clitoral Gl
Note: ONLY ONE GLD. IS PRESENT..

Heart
Liver
Note: VACUOLIZ CYTO TGLs = 4-3.1

Lung
Lymph Node
Mammary Gland
Note: ECTASIA TGLs = 5-10

Pituitary Gland
Note: [ANGIECTASIS] TGLs = 2-2
[Cyst TGLS = 2-2]

Spleen
Uterus
Note: POLYP STROMAL TGLs = 3-8

Mandibular
Duct
Pars Distalis
Pars Distalis

Cardiomyopathy
Vacuolization Cytoplasmic
Hyperplasia
Squamous Cell Carcinoma
Ectasia
Angiectasis
Cyst

Atrophy
Polyp Stromal

Chronic, Mild
Diffuse, Marked
Lymphoid, Mild
Metastatic (Uncertain Primary Site)
Moderate
Focal, Mild
Marked

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 224

TRT#: 4

SEX: Female

DAY ON TEST: 683

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Compression	
[Compression TGLS = 8-1]			
Clitoral Gland		Hyperplasia	Focal, Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC TGLs = 6-3.1			
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA TGLs = 4,5-13,10			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-2]			
Skin		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 7-14			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1,2-3			
Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 225

TRT#: 4

SEX: Female

DAY ON TEST: 683

DOSE: 0.063

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Clitoral Gland		Hyperplasia	Focal, Mild
Kidney		Infarct	Chronic, Moderate
		Nephropathy	Chronic, Mild
[Nephropathy TGLS = 3-5]			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6,7-3.1		
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Mammary Gland		Adenocarcinoma	
Note: [ADENOCARC]	TGLs = 8-13		
Pancreas		Atrophy	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-2]			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-3		
Uterus	Endometrium	Cyst	
Note: CYST	TGLs = 1-8		
Zymbal's Gland		Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 226

TRT#: 4

SEX: Female

DAY ON TEST: 495

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thymus
Uterus

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Kidney
Ovary
Skin
Thyroid Gland

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

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Clitoral Gland
Liver
Lung
Lymph Node
Pituitary Gland
 [Adenoma TGLS = 7-2]
Spleen
 [Hematopoietic Cell Proliferation TGLS = 5-3]
Zymbal's Gland

Mandibular
Pars Distalis

Hyperplasia
Basophilic Focus
Hyperplasia
Hyperplasia
Adenoma

Hematopoietic Cell Proliferation

Adenoma
Carcinoma

Squamous, Multifocal, Mild
Mild
Lymphoid, Mild
Lymphoid, Marked

Marked

Note: CARCINOMA TGLs = 2-10.1
Note: ADENOMA TGLs = 6-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 227

TRT#: 4

SEX: Female

DAY ON TEST: 647

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Mammary Gland

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
Note: CYST	TGLs = 2-5		
Liver		Degeneration	Cystic, Focal, Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3,4-3.1		
Lung		Hyperplasia	Lymphoid, Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 8-13		
Ovary		Cyst	
Note: CYST	TGLs = 5-8		
Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 227

TRT#: 4
DOSE: 0.063

SEX: Female
DISP: Moribund

DAY ON TEST: 647
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ECTASIA TGLs = 11-2
Spleen

Hyperplasia
Leukemia Mononuclear

Reticulum Cell, Moderate

Note: LEUKEMIA MONUC TGLs = 9,10-3
Thyroid Gland
Uterus

C Cell

Adenoma
Ectasia
Fibrosis

Focal, Mild
Moderate

Cervix

Note: FIBROSIS TGLs = 6-14
Note: ECTASIA TGLs = 7-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 228

TRT#: 4

SEX: Female

DAY ON TEST: 506

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Trachea

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Kidney
Ovary
Stomach - Forestomach
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Stomach - Glandular
Uterus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Thymus
Zymbal's Gland

OBSERVATIONS

Clitoral Gland
Note: CARCINOMA TGLs = 1-8.1

Liver
Lung

Mammary Gland
Pituitary Gland
[Cyst TGLS = 5-2]

Skin
Spleen
[Hematopoietic Cell Proliferation TGLS = 2-3]

Thyroid Gland
[Adenoma TGLS = 6-2]

Duct
Pars Distalis

Hair Follicle

Bilateral, Follicular Cel

Carcinoma

Basophilic Focus
Carcinoma
Hyperplasia
Ectasia
Cyst

Hyperplasia
Hematopoietic Cell Proliferation

Adenoma

Mild
Metastatic (Clitoral Gland)
Lymphoid, Mild
Moderate
Moderate
Basal Cell, Multifocal, Moderate
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 229

TRT#: 4

SEX: Female

DAY ON TEST: 622

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Thymus
Uterus

Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Ovary
Salivary Glands
Thyroid Gland
Zymbal's Gland

OBSERVATIONS

Bone Marrow
Kidney
Liver
Lung
Lymph Node
Nose

Mesenteric

Hyperplasia
Nephropathy
Granuloma
Hyperplasia
Hyperplasia
Fungus
Inflammation
Metaplasia
Keratoacanthoma

Moderate
Chronic, Mild
Minimal
Lymphoid, Mild
Reticulum Cell, Mild
Mild
Acute, Mild
Squamous, Mild

Skin

Note: KERATOACANTHMA TGLs = 3-13

Spleen

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 230

TRT#: 4

SEX: Female

DAY ON TEST: 565

DOSE: 0.063

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Clitoral Gland
Esophagus	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
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Kidney	Renal Tubule	Pigmentation	Moderate
Note: PIGMENT TGLs = 5-5			
Liver		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Diffuse, Moderate
Note: LEUKEMIA MONUC TGLs = 6,7-3.1			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 11-7			
Note: LEUKEMIA MONUC TGLs = 10-14			
[Leukemia Mononuclear TGLs = 13-15]			
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 4-13			
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 8,9-2			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-3.2			
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
Urinary Bladder		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 230

TRT#: 4
DOSE: 0.063

SEX: Female
DISP: Moribund

DAY ON TEST: 565
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus
Note: POLYP STROMAL TGLs = 12-8

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 315

TRT#: 6

SEX: Female

DAY ON TEST: 372

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Stomach - Glandular
Zymbal's Gland

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Skin
Thymus

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

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Clitoral Gland
Note: HYPERPLASIA TGLs = 1-8

Hyperplasia Focal, Mild

Kidney
Note: HYDRONEPHROSIS TGLs = 5-5

Hydronephrosis Mild
Nephropathy Chronic, Mild

Liver
[Cyst TGLS = 4-3.1]

Bile Duct Basophilic Focus Minimal
Cyst Marked

Lung
Uterus
Note: POLYP HAS PROLAPSED AND HAS SECONDARY CHANGES..
Note: [PROLAPSE] TGLs = 2-8.1

Hyperplasia Lymphoid, Mild
Prolapse Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 317

TRT#: 6

SEX: Female

DAY ON TEST: 680

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Note: LEUKEMIA MONUC	TGLs = 12-5		
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 11-3.1		
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-4		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-7		
Mesentery		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-13		
Ovary		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-8		
Pancreas		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-6		
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 8-15		
Skeletal Muscle	Diaphragm	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 317

TRT#: 6

SEX: Female

DAY ON TEST: 680

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 9-16

Skin Keratoacanthoma

Note: KERATOACANTHMA TGLs = 7-14

Spleen Leukemia Mononuclear

Thymus Leukemia Mononuclear

Uterus Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 318

TRT#: 6

SEX: Female

DAY ON TEST: 682

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Bone	Sternum	Osteopetrosis	Moderate
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
		Regeneration	Multifocal, Mild
Note: LEUKEMIA MONUC TGLs = 8,9,10-3.1			
Note: ML IS STAGE 3..			
Note: REGENERATION TGLs = 11-3.1			
Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-13			
Note: EXTENSIVE NECROSIS IN THE NODE..			
Mammary Gland	Duct	Ectasia	Moderate
Note: ECTASIA TGLs = 1-10			
Pancreas		Atrophy	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 12-2]			
Spleen		Hyperplasia	Reticulum Cell, Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 318

TRT#: 6
DOSE: 0.125

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 682
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 7-3
[Hyperplasia TGLS = 5,6-3]

Uterus

Polyp Stromal

Multiple

Note: POLYP STROMAL TGLs = 3,4-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 319

TRT#: 6

SEX: Female

DAY ON TEST: 633

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Clitoral Gland		Hyperplasia	Focal, Mild
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
Lung		Congestion	Moderate
		Hyperplasia	Lymphoid, Moderate
Note: CONGESTION	TGLs = 3-4,4.1		
Ovary		Cyst	
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 6-14		
Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 4,5-2,1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 320

TRT#: 6

SEX: Female

DAY ON TEST: 630

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland	Nose
Ovary	Parathyroid Gland	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-2			
Brain		Leukemia Mononuclear	
Clitoral Gland		Adenoma	
Note: ADENOMA TGLs = 1-8			
Heart		Leukemia Mononuclear	
Kidney		Infarct	Acute, Moderate
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
		Regeneration	Diffuse, Marked
		Vacuolization Cytoplasmic	Diffuse, Mild
Note: ML IS STAGE 3..			
Note: REGENERATION TGLs = 4-3.1			
Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5,9-13,15			
Pancreas		Leukemia Mononuclear	
Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 6-14			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 320	TRT#: 6 DOSE: 0.125	SEX: Female DISP: Moribund	DAY ON TEST: 630 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 7,8-3			
Stomach	Glandular	Erosion	Multifocal, Marked
Uterus	Endometrium	Cyst	
Note: CYST TGLs = 2-8			
Zymbal's Gland		Ectasia	Mild

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 321

TRT#: 6

SEX: Female

DAY ON TEST: 682

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Skin
Thymus
Uterus

Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Spleen
Thyroid Gland

OBSERVATIONS

Brain
Clitoral Gland
Heart
Kidney
Liver

Lung

Mammary Gland
Note: FIBROADENOMA TGLs = 1-13
Ovary
Note: CYST TGLs = 2-8
Pharynx
Note: SQ CL PAPILOM TGLs = 3-14
Zymbal's Gland

Cerebrum

Alveolar Epith

Palate

Astrocytoma Malignant
Hyperplasia
Cardiomyopathy
Nephropathy
Basophilic Focus
Eosinophilic Focus
Hyperplasia
Hyperplasia
Fibroadenoma

Cyst

Squamous Cell Papilloma

Adenoma

Focal, Mild
Chronic, Minimal
Chronic, Minimal
Mild
Mild
Focal, Mild
Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 322

TRT#: 6

SEX: Female

DAY ON TEST: 682

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland

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

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Clitoral Gland
Note: CARCINOMA TGLs = 1-8

Kidney
Liver
Lung
Pituitary Gland
Spleen
Uterus

Pars Distalis

Carcinoma
Nephropathy
Basophilic Focus
Hyperplasia
Angiectasis
Hematopoietic Cell Proliferation
Adenoma
Polyp Stromal

Chronic, Mild
Mild
Lymphoid, Mild
Focal, Mild
Mild

Note: POLYP STROMAL TGLs = 2,3-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 323

TRT#: 6

SEX: Female

DAY ON TEST: 495

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Skin
Thymus

OBSERVATIONS

Liver

Lung
Pituitary Gland
Uterus
 Note: [CYST] TGLs = 4-8
Zymbal's Gland

Pars Distalis
Endometrium

Basophilic Focus
Granuloma
Hyperplasia
Cyst
Cyst

Carcinoma
Hyperplasia

Minimal
Moderate
Lymphoid, Mild
Marked
Minimal

Squamous, Focal, Mild

Note: VENOUS EMBOLI NOTED..

Note: CARCINOMA TGLs = 1-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 324

TRT#: 6

SEX: Female

DAY ON TEST: 626

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Clitoral Gland	Esophagus	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	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 1-5			
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: LEUKEMIA MONUC TGLs = 6-3.1			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-13			
Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 4-2]			
Spleen		Hyperplasia	Reticulum Cell, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-3			
Uterus	Cervix	Fibrosis	Moderate
Note: FIBROSIS TGLs = 2-8.1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 324

TRT#: 6
DOSE: 0.125

SEX: Female
DISP: Dead

DAY ON TEST: 626
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland

Ectasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 325

TRT#: 6

SEX: Female

DAY ON TEST: 630

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-2			
Brain		Leukemia Mononuclear	
Clitoral Gland		Adenoma	
Note: ADENOMA TGLs = 1-13			
Heart		Leukemia Mononuclear	
Intestine Large	Cecum	Inflammation	Acute, Moderate
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC TGLs = 7,8-3.1,3.2			
Lung		Leukemia Mononuclear	
Lymph Node	Iliac	Leukemia Mononuclear	
	Lumbar	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9,10,11,16-16,17,18,20			
Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA TGLs = 2,3-14,15			
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 17-21			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 325	TRT#: 6	SEX: Female	DAY ON TEST: 630
	DOSE: 0.125	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pharynx Note: SQUAM CEL CARC TGLs = 14-19	Palate	Squamous Cell Carcinoma	
Pituitary Gland Note: ADENOMA TGLs = 12-2	Pars Distalis	Adenoma	
Spleen Note: LEUKEMIA MONUC TGLs = 15-3		Leukemia Mononuclear	
Stomach	Glandular	Inflammation	Chronic, Moderate
Uterus Note: CYST TGLs = 5-8	Endometrium	Cyst	

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 326

TRT#: 6

SEX: Female

DAY ON TEST: 682

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Bone	Sternum	Osteopetrosis	Moderate
Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-13		
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Ectasia	Moderate
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 3-14		
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST	TGLs = 2-2		
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 4-2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 327

TRT#: 6

SEX: Female

DAY ON TEST: 529

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Clitoral Gland	Esophagus
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
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Zymbal's Gland	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-3.1		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-9		
Ovary		Cyst	Marked
Note: CYST	TGLs = 5-8		
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-2		
	[Leukemia Mononuclear TGLs = 9-2]		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3,4-3		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 328

TRT#: 6

SEX: Female

DAY ON TEST: 368

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Zybal's Gland		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Clitoral Gland		Carcinoma	
Note: CARCINOMA TGLs = 2-8.1			
Liver		Basophilic Focus	Mild
		Hematopoietic Cell Proliferation	Mild
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Iliac	Carcinoma	Metastatic (Clitoral Gland)
	Axillary	Hyperplasia	Lymphoid, Moderate
Note: CARCINOMA TGLs = 1-13			
Note: HYPERPLASIA TGLs = 6-14			
Pituitary Gland	Pars Distalis	Cyst	Moderate
Note: CYST TGLs = 5-2			
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 4-3			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 329

TRT#: 6

SEX: Female

DAY ON TEST: 654

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Clitoral Gl			
Note: ONE GLAND IS PRESENT..			
Eye	Cornea	Inflammation	Chronic Active, Marked
Note: INFLAMMATION TGLs = 1-13			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Moderate
		Fatty Change	Moderate
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-2			
Zymbal's Gland		Carcinoma	
		Ectasia	Marked
Note: CARCINOMA TGLs = 4-10.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 330

TRT#: 6

SEX: Female

DAY ON TEST: 659

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Esophagus	Heart	Intestine Large - Cecum
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	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Hyperplasia	Moderate
Clitoral Gland		Ectasia	Moderate
Note: ECTASIA TGLs = 1-8			
Intestine Large	Colon, Descend Colon	Necrosis	Focal, Mild
Note: NECROSIS TGLs = 4-7.1			
Kidney		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
		Regeneration	Multifocal, Marked
Note: LEUKEMIA MONUC TGLs = 5-3.1			
Note: ML IS STAGE 3..			
Lung		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-13			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-3			
Stomach	Glandular	Erosion	Focal, Minimal
Zymbal's Gland		Ectasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 331

TRT#: 6

SEX: Female

DAY ON TEST: 646

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pituitary Gland
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Skin
Thymus
Uterus

Esophagus
Intestine Small - Duodenum
Lung
Parathyroid Gland
Spleen
Thyroid Gland
Zymbal's Gland

OBSERVATIONS

Adrenal Gland
Clitoral Gland
Note: CARCINOMA TGLs = 2-8.1

Medulla

Pheochromocytoma Benign
Carcinoma

Heart
Kidney
Liver
Mammary Gland
Note: FIBROADENOMA TGLs = 1-13
Note: ECTASIA TGLs = 4-10

Duct

Cardiomyopathy
Nephropathy
Basophilic Focus
Ectasia
Fibroadenoma

Chronic, Mild
Chronic, Mild
Mild
Moderate

Nose
Pancreas
Pharynx
Note: [HYPERPLASIA] TGLs = 3-12

Palate

Fungus
Inflammation
Atrophy
Hyperplasia

Mild
Acute, Mild
Mild
Squamous, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 332

TRT#: 6

SEX: Female

DAY ON TEST: 555

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Salivary Glands
Thymus
Zymbal's Gland

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Skin
Thyroid Gland

Brain
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Stomach - Forestomach
Trachea

Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Glandular
Uterus

OBSERVATIONS

Adrenal Gland
Clitoral Gland
Heart
Kidney
Liver

Cortex

Vacuolization Cytoplasmic
Ectasia
Cardiomyopathy
Nephropathy
Basophilic Focus
Hepatodiaphragmatic Nodule
Leukemia Mononuclear

Focal, Mild
Moderate
Chronic, Mild
Chronic, Mild
Minimal

Note: LEUKEMIA MONUC TGLs = 1-3.1

Note: ANOM HEPAT LOB TGLs = 2-3.1

Note: ML IS STAGE 2

Lung

Hyperplasia
Leukemia Mononuclear
Fibroadenoma

Lymphoid, Mild

Mammary Gland

Note: FIBROADENOMA TGLs = 3-13

Pancreas

Pituitary Gland

Pars Distalis

Note: EARLY ADENOMA DEMONSTRATING INVASION

Spleen

Note: LEUKEMIA MONUC TGLs = 4-3.2

Urinary Bladder

Transit Epithe

Note: PEDICLE NOT IN SECTION..

Papilloma

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 333

TRT#: 6

SEX: Female

DAY ON TEST: 592

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Clitoral Gland	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	Ovary	Pancreas
Salivary Glands	Skin	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Diffuse, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Diffuse, Moderate
Note: LEUKEMIA MONUC TGLs = 6-3.1 Note: ML IS STAGE 3..			
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Marked
Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	
Note: [FIBROADENOMA] TGLs = 4-13 Note: ECTASIA TGLs = 1-10			
Pituitary Gland	Pars Distalis	Angiectasis	Focal, Minimal
Note: [ANGIECTASIS] TGLs = 2-2			
Spleen		Leukemia Mononuclear	
Stomach	Forestomach	Ulcer	Focal, Moderate
Zymbal's Gland		Carcinoma	
Note: [CARCINOMA] TGLs = 3-10.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 333

TRT#: 6
DOSE: 0.125

SEX: Female
DISP: Moribund

DAY ON TEST: 592
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 334

TRT#: 6

SEX: Female

DAY ON TEST: 682

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Mild
Clitoral Gland		Adenoma	
		Inflammation	Acute, Mild
Eye		Cataract	Mild
	Retina	Degeneration	Marked
Note: CATARACT	TGLs = 4-13		
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Minimal
Lung		Hyperplasia	Lymphoid, Mild
Mammary Gland	Duct	Ectasia	Moderate
Note: ECTASIA	TGLs = 1-10		
Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 5-2]			
Skin		Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 2-14		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 335

TRT#: 6

SEX: Female

DAY ON TEST: 253

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Eye	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lymph Node - Mandibular	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Tongue
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Adrenal Gland [Congestion TGLS = 7-2]	Cortex	Congestion	Moderate
Clitoral Gland Note: CARCINOMA TGLs = 1-13		Carcinoma	
Liver Note: DEGEN TGLs = 9-3.1 [Degeneration TGLS = 8-3.1]	Centrilobular	Degeneration Hematopoietic Cell Proliferation Hepatodiaphragmatic Nodule Necrosis	Diffuse, Mild Mild Multifocal, Moderate
Lung Lymph Node Note: HYPERPLASIA TGLs = 4-7	Mesenteric	Hyperplasia Hyperplasia	Lymphoid, Mild Lymphoid, Moderate
Spleen [Hematopoietic Cell Proliferation TGLS = 3-3]		Hematopoietic Cell Proliferation	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 336

TRT#: 6

SEX: Female

DAY ON TEST: 372

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Salivary Glands
Thymus
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Clitoral Gland
Note: CARCINOMA TGLs = 2-8.1
Kidney
Liver
Note: ANOM HEPAT LOB TGLs = 3-3.1
Lung
Mesentery
Note: NECROSIS TGLs = 1-13
Spleen

Fat

Carcinoma
Nephropathy
Basophilic Focus
Hepatodiaphragmatic Nodule
Hyperplasia
Necrosis
Hematopoietic Cell Proliferation
Chronic, Minimal
Minimal
Lymphoid, Mild
Moderate
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 337 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 680
DOSE: 0.125 **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Clitoral Gland		Carcinoma	
Note: EXTREMELY ANAPLASTIC..			
Note: CARCINOMA TGLs = 1-8.1			
Heart		Cardiomyopathy	Chronic, Mild
Liver		Basophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Mild
Note: BASOPH FOCUS TGLs = 3-3.1			
Lung		Hyperplasia	Lymphoid, Mild
Mammary Gland		Galactocele	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-2			
Skeletal Muscle	Back	Carcinoma	Metastatic (Clitoral Gland)
Note: CARCINOMA TGLs = 2-13			
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLs = 4-3]			
Zymbal's Gland		Adenoma	
		Ectasia	Minimal
Note: ADENOMA TGLs = 5-10			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 338

TRT#: 6

SEX: Female

DAY ON TEST: 408

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Kidney
Nose
Salivary Glands
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Skin
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Clitoral Gland
Note: CARCINOMA TGLs = 1-8.1
Liver
Lung
Pituitary Gland
[Cyst TGLS = 2-2]
Spleen
Zymbal's Gland
Note: ECTASIA TGLs = 4-10

Pars Distalis

Carcinoma
Hematopoietic Cell Proliferation
Hyperplasia
Cyst
Hematopoietic Cell Proliferation
Ectasia
Mild
Lymphoid, Mild
Mild
Mild
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 339

TRT#: 6

SEX: Female

DAY ON TEST: 682

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone	Sternum	Osteopetrosis	Moderate
Heart		Schwannoma Malignant	
	Atrium	Thrombosis	
Note: THROMBUS TGLs = 4-3			
Intestine Large	Colon	Polyp Adenomatous	
Kidney		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
		Regeneration	Multifocal, Moderate
Note: LEUKEMIA MONUC TGLs = 5-3.1			
Note: ML IS STAGE 3..			
Note: REGENERATION TGLs = 6,7-3.1			
Lung		Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 8-14			
Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
Note: [ANGIECTASIS] TGLs = 3			
Salivary Glands		Sarcoma	
Note: EARLY SARCOMA ARISING IN THE INTERLOBULAR CONN TISS..			
Skin		Basal Cell Carcinoma	
Note: BASAL CEL CARC TGLs = 1-13			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 339

TRT#: 6

SEX: Female

DAY ON TEST: 682

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 2-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 340

TRT#: 6

SEX: Female

DAY ON TEST: 682

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Zymbal's Gland	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Multifocal, Mild
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
		Leukemia Mononuclear	
Note: ML IS STAGE 1..			
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 5-2			
Skin		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 2-13			
Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
Note: HEMA CELL PROL TGLs = 4-3			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 341

TRT#: 6

SEX: Female

DAY ON TEST: 616

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Mammary Gland	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Clitoral Gland

OBSERVATIONS

Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
		Necrosis	Multifocal, Minimal
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-7			
Nose		Inflammation	Acute, Moderate
		Metaplasia	Squamous, Moderate
Pharynx	Palate	Squamous Cell Papilloma	
Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 4-13			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2,3-3]			
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 342

TRT#: 6

SEX: Female

DAY ON TEST: 460

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
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 Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Thymus
Uterus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland
Zymbal's Gland

OBSERVATIONS

Clitoral Gland
Note: CARCINOMA TGLs = 1-8.1
Liver

Carcinoma

Basophilic Focus
Hematopoietic Cell Proliferation
Hepatodiaphragmatic Nodule

Mild
Mild

Note: ANOM HEPAT LOB TGLs = 5-3.1
Lung
Spleen

Hyperplasia
Hematopoietic Cell Proliferation

Lymphoid, Mild
Marked

[Hematopoietic Cell Proliferation TGLS = 2-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 343

TRT#: 6

SEX: Female

DAY ON TEST: 682

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thymus
Uterus

OBSERVATIONS

Clitoral Gland
Heart
Kidney

Liver

Note: PATCHY BASOPHILIA..
Lung
Pituitary Gland
[Cyst TGLS = 2-2]
Spleen

Renal Tubule

Pars Distalis

Adenoma
Cardiomyopathy
Nephropathy
Pigmentation
Basophilic Focus
Clear Cell Focus

Hyperplasia
Cyst

Pigmentation

Chronic, Mild
Chronic, Minimal
Moderate
Moderate
Mild

Lymphoid, Mild

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 344

TRT#: 6

SEX: Female

DAY ON TEST: 682

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Thymus
Zymbal's Gland

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Salivary Glands
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Uterus

OBSERVATIONS

Bone
Clitoral Gland
Note: CARCINOMA TGLs = 2-8
Note: CARCINOMA IS NOT BILATERAL..

Sternum

Osteopetrosis
Carcinoma

Moderate

Kidney
Liver

Note: CYST TGLs = 5-3.1
Note: FOCAL REG. AT TIP OF ONE LOBE W/ ANGIECATASIS..
Note: [HEMA CELL PROL] TGLs = 4-3.1

Bile Duct

Nephropathy
Angiectasis
Cyst
Hematopoietic Cell Proliferation
Regeneration

Chronic, Mild
Focal, Minimal

Mild
Multifocal, Moderate

Lung

Mesentery
Note: NECROSIS TGLs = 3-14
Skin
Note: SQ CL PAPILOM TGLs = 1-13

Fat

Hyperplasia
Infiltration Cellular
Necrosis

Lymphoid, Mild
Histocyte, Mild
Moderate

Spleen
Thyroid Gland
[Carcinoma TGLS = 6,7-2]

C Cell

Squamous Cell Papilloma

Hematopoietic Cell Proliferation
Carcinoma

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 344

TRT#: 6

SEX: Female

DAY ON TEST: 682

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 345

TRT#: 6

SEX: Female

DAY ON TEST: 659

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Bone Marrow

Brain

Esophagus

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lymph Node - Mandibular

Lymph Node - Mesenteric

Nose

Ovary

Pancreas

Parathyroid Gland

Salivary Glands

Skin

Stomach - Forestomach

Stomach - Glandular

Thymus

Trachea

Urinary Bladder

Zymbal's Gland

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland

Cortex

Vacuolization Cytoplasmic

Multifocal, Minimal

Note: VACUOLIZ CYTO TGLs = 5-2

Clitoral Gland

Hyperplasia

Focal, Mild

Note: HYPERPLASIA TGLs = 1,2-8

Hyperplasia

Squamous, Multifocal, Moderate

Kidney

Nephropathy

Chronic, Mild

Liver

Basophilic Focus

Mild

Note: ANOM HEPAT LOB TGLs = 6-3.1

Hematopoietic Cell Proliferation

Mild

Hepatodiaphragmatic Nodule

Lung

Hyperplasia

Lymphoid, Mild

Infiltration Cellular

Histiocyte, Mild

Cyst

Pituitary Gland

Pars Distalis

Note: CYST TGLs = 8,9-2

Spleen

Hematopoietic Cell Proliferation

Moderate

Note: HEMA CELL PROL TGLs = 10-3

Thyroid Gland

C Cell

Adenoma

Uterus

Polyp Stromal

Note: POLYP STROMAL TGLs = 3-8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 345

TRT#: 6
DOSE: 0.125

SEX: Female
DISP: Moribund

DAY ON TEST: 659
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 346

TRT#: 6

SEX: Female

DAY ON TEST: 479

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Kidney
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Ileum
Lung
Ovary
Salivary Glands
Thymus
Uterus

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Skin
Thyroid Gland
Zymbal's Gland

OBSERVATIONS

Bone
Intestine Small
 Note: ADENOCARC TGLs = 10-6.1
Liver

Sternum
Duodenum

Osteopetrosis
Adenocarcinoma

Moderate
Cystic, Mucinous

 Note: HYPERBASOPHILIA..

Lymph Node
 [Angiectasis TGLS = 2-7]

Mesenteric

Granuloma
Hematopoietic Cell Proliferation
Necrosis

Mild
Mild
Multifocal, Mild

Spleen
 [Hematopoietic Cell Proliferation TGLS = 7-3]

Angiectasis

Marked

Hematopoietic Cell Proliferation

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 347

TRT#: 6

SEX: Female

DAY ON TEST: 646

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Islets, Pancreatic
Nose
Salivary Glands
Thymus
Zymbal's Gland

Bone Marrow
Intestine Large - Colon
Lung
Pancreas
Skin
Trachea

Brain
Intestine Large - Rectum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Esophagus
Intestine Small
Lymph Node - Mesenteric
Pituitary Gland
Stomach - Glandular
Uterus

OBSERVATIONS

Adrenal Gland
Clitoral Gland

Cortex
Bilateral

Hyperplasia
Carcinoma

Multifocal, Minimal

Note: CARCINOMA TGLs = 2-8.1

Note: NODULE WAS MAMMARY FIBROADENOMA..

Note: WHILE BILATERAL ON SECTION, ONE GROSSLY OBSERVED

Heart
Kidney
Liver
Mammary Gland

Cardiomyopathy
Nephropathy
Basophilic Focus
Fibroadenoma

Chronic, Minimal
Chronic, Minimal
Minimal
Multiple

Note: RECORDED AS CLITORAL MASS GROSSLY..

Note: FIBROADENOMA TGLs = 1,3-13,8.1

Ovary
Note: GRAN THECA BGN TGLs = 4-8

Granulosa-Theca Tumor Benign

Pharynx
Note: SQ CL PAPILOM TGLs = 6-14

Palate

Squamous Cell Papilloma

Spleen
Note: HEMA CELL PROL TGLs = 5-13

Hematopoietic Cell Proliferation

Mild

Thyroid Gland
C Cell

Hyperplasia

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 348

TRT#: 6

DOSE: 0.125

SEX: Female

DISP: Moribund

DAY ON TEST: 633

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Salivary Glands
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Skin
Thymus
Zymbal's Gland

Brain
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Trachea

Esophagus
Intestine Small - Duodenum
Kidney
Nose
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Bone Marrow
Clitoral Gland
 Note: ECTASIA TGLs = 3-8
Heart
 Note: THROMBUS TGLs = 8-3
Liver
 Note: REGENERATION TGLs = 7-3.1
Mammary Gland
 Note: FIBROADENOMA TGLs = 2-13
Pharynx
 Note: SQ CL PAPILOM TGLs = 10-15
Thyroid Gland

Atrium

Palate

C Cell

Hypoplasia
Ectasia
Thrombosis
Regeneration
Vacuolization Cytoplasmic
Fibroadenoma
Squamous Cell Papilloma
Hyperplasia

Marked
Moderate
Focal, Moderate
Diffuse, Marked
Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 349

TRT#: 6

SEX: Female

DAY ON TEST: 524

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Skin
Thymus
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Heart
Kidney
Liver

Note: ANOM HEPAT LOB TGLs = 1-3.1
Note: VACUOLIZ CYTO TGLs = 2-3.1

Lung
Pharynx
Note: SQUAM CEL CARC TGLs = 4-13
Pituitary Gland

Cardiomyopathy
Nephropathy
Hepatodiaphragmatic Nodule
Vacuolization Cytoplasmic

Hyperplasia
Squamous Cell Carcinoma

Adenoma

Chronic, Mild
Chronic, Minimal
Focal, Moderate

Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 350

TRT#: 6

SEX: Female

DAY ON TEST: 645

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Skin
Thymus
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Spleen
Thyroid Gland

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

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

MISSING

Zymbal's Gland

OBSERVATIONS

Heart
Kidney
Liver

Lung

Lymph Node

Mammary Gland

Note: FIBROADENOMA TGLs = 1-13

Mesenteric

Cardiomyopathy
Nephropathy
Basophilic Focus
Eosinophilic Focus
Hyperplasia
Hyperplasia
Fibroadenoma

Chronic, Mild
Chronic, Minimal
Moderate
Mild
Lymphoid, Mild
Reticulum Cell, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 351

TRT#: 6

SEX: Female

DAY ON TEST: 682

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
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	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Clitoral Gland		Adenoma Hyperplasia	Squamous, Focal, Moderate
Note: ADENOMA	TGLs = 2-8		
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear Regeneration	Focal, Moderate
Note: ML IS STAGE 3..			
Note: REGENERATION	TGLs = 9-3.1		
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mandibular Mesenteric Pancreatic	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Mammary Gland		Adenocarcinoma Fibroadenoma	Multiple
Note: ADENOCARC	TGLs = 3-13		
Note: FIBROADENOMA	TGLs = 4,8-14,16		
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 6-15		
Pituitary Gland	Pars Distalis	Angiectasis	Focal, Moderate
[Angiectasis TGLS = 7-2]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 351

TRT#: 6

SEX: Female

DAY ON TEST: 682

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland

Carcinoma

Note: CARCINOMA

TGLs = 1-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 352

TRT#: 6

SEX: Female

DAY ON TEST: 640

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Skin
Thymus

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

OBSERVATIONS

Eye

Cataract

Moderate

Retina

Degeneration

Moderate

Note: CATARACT TGLs = 1-13

Kidney

Renal Tubule

Degeneration

Moderate

Nephropathy

Chronic, Mild

Liver

Basophilic Focus

Minimal

Granuloma

Mild

Vacuolization Cytoplasmic

Diffuse, Mild

Lung

Hyperplasia

Lymphoid, Mild

Lymph Node

Mesenteric

Hyperplasia

Reticulum Cell, Moderate

Pharynx

Palate

Squamous Cell Papilloma

Note: SQ CL PAPILOM TGLs = 6-15

Tongue

Squamous Cell Carcinoma

Note: SQUAM CEL CARC TGLs = 5-14

Uterus

Endometrium

Hyperplasia

Cystic, Moderate

Note: HYPERPLASIA TGLs = 2-8

Zymbal's Gland

Ectasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 353

TRT#: 6

SEX: Female

DAY ON TEST: 583

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone Marrow

Brain

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Liver

Lymph Node - Mandibular

Lymph Node - Mesenteric

Mammary Gland

Nose

Ovary

Pancreas

Parathyroid Gland

Pituitary Gland

Salivary Glands

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Trachea

Urinary Bladder

Uterus

OBSERVATIONS

Clitoral Gland

Adenoma

Heart

Cardiomyopathy

Chronic, Minimal

Kidney

Nephropathy

Chronic, Mild

Lung

Hyperplasia

Lymphoid, Mild

Pharynx

Palate

Infiltration Cellular

Histiocyte, Minimal

Squamous Cell Papilloma

Multiple

Note: SQ CL PAPILOM TGLs = 4,5-14,15

Thyroid Gland

C Cell

Hyperplasia

Focal, Minimal

Zymbal's Gland

Carcinoma

Note: CARCINOMA TGLs = 6-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 354

TRT#: 6

SEX: Female

DAY ON TEST: 527

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Nose	Parathyroid Gland
Salivary Glands	Skin	Thyroid Gland	Tongue
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

MISSING

Bone Marrow	Thymus
-------------	--------

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Diffuse, Mild
Note: LEUKEMIA MONUC TGLs = 3-3.1			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7,8-7,6			
Ovary		Cyst	Moderate
		Leukemia Mononuclear	
Note: CYST TGLs = 1-8			
Pancreas		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-3			
Stomach	Forestomach	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 354

TRT#: 6
DOSE: 0.125

SEX: Female
DISP: Moribund

DAY ON TEST: 527
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Glandular

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 355

TRT#: 6

SEX: Female

DAY ON TEST: 432

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
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 Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Thymus
Uterus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland

OBSERVATIONS

Bone
Clitoral Gland
Note: ECTASIA TGLs = 2-8

Cranium

Carcinoma
Ectasia

Metastatic (Zymbal'S Gland)
Moderate

Liver
[Hematopoietic Cell Proliferation TGLS = 3-3.1]

Granuloma
Hematopoietic Cell Proliferation
Necrosis

Minimal
Mild
Coagulative, Moderate

Lung
Spleen
[Hematopoietic Cell Proliferation TGLS = 7-3]

Hyperplasia
Hematopoietic Cell Proliferation

Lymphoid, Mild
Moderate

Zymbal's Gland
Note: CARCINOMA TGLs = 6-10.1

Adenoma
Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 356

TRT#: 6

SEX: Female

DAY ON TEST: 673

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Clitoral Gland	Bilateral	Adenoma	
Note: [ADENOMA] TGLs = 2-8.1			
Kidney		Nephropathy	Chronic, Mild
Liver	Centrilobular	Degeneration	Diffuse, Mild
		Hematopoietic Cell Proliferation	Mild
Note: DEGEN TGLs = 5-3.1			
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
Note: INFILTRAT CELL TGLs = 6-4,4.1			
Ovary		Cyst	
Note: CYST TGLs = 3-8			
Pharynx	Palate	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 8-12,14			
Skin		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 7-13			
Note: RECORDED GROSSLY TO INVOLVE THE GINGIVA..			
Spleen		Hematopoietic Cell Proliferation	Moderate
Thyroid Gland	C Cell	Adenoma	
Uterus	Endometrium	Cyst	
Note: CYST TGLs = 4-8			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 357

TRT#: 6

SEX: Female

DAY ON TEST: 640

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT	TGLs = 4-7		
Kidney	Cortex	Cyst	
Note: CYST	TGLs = 3-5	Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-3.1		
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-9		
Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA	TGLs = 10,11-13,14		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-3		
Thymus		Leukemia Mononuclear	
Uterus	Endometrium	Cyst	
	Cervix	Fibrosis	Moderate
Note: CYST	TGLs = 1-8		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 357

TRT#: 6

SEX: Female

DAY ON TEST: 640

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROSIS TGLs = 2-8.1

Zymbal's Gland

Carcinoma

Note: CARCINOMA TGLs = 9-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 358

TRT#: 6

SEX: Female

DAY ON TEST: 683

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Skin
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Thymus
Zymbal's Gland

OBSERVATIONS

Clitoral Gland
Note: ONE GLAND IS PRESENT..

Heart
Kidney
Liver
Lung
Mammary Gland
Note: FIBROADENOMA TGLs = 2-14
Pituitary Gland
[Angiectasis TGLs = 5-2]
Spleen
Tongue
Note: SQ CL PAPILOM TGLs = 4-15
Uterus
Note: SARC STROMAL TGLs = 1-13
Note: SARC HAS INVADED CERVIX AS WELL..
Zymbals GI
Note: ONE GLAND IS PRESENT..

Renal Tubule

Pars Distalis

Cardiomyopathy
Nephropathy
Pigmentation
Basophilic Focus
Hematopoietic Cell Proliferation
Hyperplasia
Fibroadenoma
Angiectasis
Hematopoietic Cell Proliferation
Squamous Cell Papilloma
Sarcoma Stromal
Chronic, Mild
Chronic, Mild
Moderate
Mild
Mild
Lymphoid, Mild
Focal, Mild
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 359

TRT#: 6

SEX: Female

DAY ON TEST: 432

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
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 Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Thymus
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland

OBSERVATIONS

Clitoral Gland
Liver

Note: NECROSIS TGLs = 3-3.1
Lung
Spleen
Tongue
Note: [SQUAM CEL CARC] TGLs = 5-13
Uterus
Note: POLYP STROMAL TGLs = 2-8

Adenoma
Basophilic Focus
Necrosis

Hyperplasia
Pigmentation
Squamous Cell Carcinoma

Polyp Stromal

Mild
Coagulative, Marked

Lymphoid, Mild
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 360

TRT#: 6

SEX: Female

DAY ON TEST: 589

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Clitoral Gland		Ectasia	Moderate
		Hyperplasia	Squamous, Focal, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Moderate
		Pigmentation	Mild
Lung		Hyperplasia	Lymphoid, Mild
Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA	TGLs = 2,3-13,14		
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 5-15		
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-2]			
Spleen		Hematopoietic Cell Proliferation	Moderate
		Sarcoma	
Note: SARCOMA	TGLs = 1-3.2		
Zymbal's Gland		Ectasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 361

TRT#: 6

SEX: Female

DAY ON TEST: 666

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Ovary	Parathyroid Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hypoplasia	Moderate
Brain		Leukemia Mononuclear	
Clitoral Gland		Adenoma	
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-3.1		
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 4-14		
Note: TUMOR HEAVILY INFILTRATED WITH LEUKEMIC CELLS..			
Pancreas		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 2-13		
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 361

TRT#: 6
DOSE: 0.125

SEX: Female
DISP: Moribund

DAY ON TEST: 666
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 7-3]

Urinary Bladder
Uterus
Zymbal's Gland

Endometrium

Leukemia Mononuclear
Hyperplasia
Adenoma
Ectasia

Cystic, Mild

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 362

TRT#: 6

SEX: Female

DAY ON TEST: 683

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Marked
		Leukemia Mononuclear	
		Neoplastic Nodule	
		Regeneration	Multifocal, Moderate
Note: NEOPLASTIC NOD TGLs = 4-3.1			
Note: ML IS STAGE 2..			
Note: REGENERATION TGLs = 5-3.1			
Lung		Hyperplasia	Lymphoid, Mild
Pituitary Gland	Pars Distalis	Adenoma	
		Hemorrhage	Moderate
Note: HEMORRHAGE TGLs = 7-2			
[Adenoma TGLS = 6-2]			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-3			
Stomach	Forestomach	Acanthosis	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 363

TRT#: 6

SEX: Female

DAY ON TEST: 683

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
		Regeneration	Multifocal, Moderate
Note: ML IS STAGE 3..			
Note: REGENERATION TGLs = 10-3.1			
Note: LEUKEMIA MONUC TGLs = 9-3.1			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Ovary		Cyst	
Note: CYST TGLs = 2-8			
Pancreas		Atrophy	Mild
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 7-2			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-3			
Thymus		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-9			
Uterus		Ectasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 363

TRT#: 6

SEX: Female

DAY ON TEST: 683

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Polyp Stromal

Multiple

Note: ONE POLYP IS INFARCTED OR NECROTIC..

Note: [ECTASIA] TGLs = 3-8

Note: POLYP STROMAL TGLs = 4,5-8,14

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 364

TRT#: 6

SEX: Female

DAY ON TEST: 683

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

OBSERVATIONS

Bone	Sternum	Osteopetrosis	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
Note: BASOPH FOCUS	TGLs = 5-3.1		
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hyperplasia	Reticulum Cell, Moderate
Note: HYPERPLASIA	TGLs = 6-15		
Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	Multiple
Note: ECTASIA	TGLs = 1-10		
Note: FIBROADENOMA	TGLs = 2,3-13,14		
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST	TGLs = 7-2		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 365

TRT#: 6

SEX: Female

DAY ON TEST: 638

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Brain	Cerebrum	Astrocytoma Malignant	
Clitoral Gland	Bilateral	Adenoma	
		Ectasia	Moderate
Note: ADENOMA TGLs = 1,2-8			
Heart	Endocardium	Cardiomyopathy	Chronic, Mild
	Renal Tubule	Hyperplasia	Mild
Kidney		Pigmentation	Mild
Note: PIGMENT TGLs = 6-5			
Liver		Basophilic Focus	Mild
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
Note: INFILTRAT CELL TGLs = 9-4,4.1			
Mammary Gland	Duct	Ectasia	Moderate
Note: ECTASIA TGLs = 3-13			
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 4-14			
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 10-15			
Spleen		Atrophy	Moderate
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 366

TRT#: 6

SEX: Female

DAY ON TEST: 449

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Clitoral Gland	Esophagus
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	Ovary
Pancreas	Pituitary Gland	Salivary Glands	Skin
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5,6-4,4.1]		
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1,2,8-7,9,6		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-3		
Stomach	Forestomach	Acanthosis	Moderate
	Forestomach	Ulcer	Focal, Moderate
Note: ULCER	TGLs = 9-6		
Note: ACANTHOSIS	TGLs = 10-6		
Thyroid Gland		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 11-2		
Tissue NOS		Leukemia Mononuclear	
Note: PROB. ORIG. FROM LYMPH NODE..			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 366

TRT#: 6
DOSE: 0.125

SEX: Female
DISP: Dead

DAY ON TEST: 449
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 4-13
Zymbal's Gland

Hyperplasia

Squamous, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 367

TRT#: 6

SEX: Female

DAY ON TEST: 625

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Brain		Compression	
[Compression TGLS = 5-1]			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Moderate
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Mammary Gland		Adenocarcinoma	
	Duct	Ectasia	Moderate
Note: ADENOCARC TGLs = 3-13			
Note: ECTASIA TGLs = 1-10			
Nose		Fungus	Mild
		Inflammation	Acute, Mild
Pharynx	Palate	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 6-14			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-2]			
Spleen		Pigmentation	Mild
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
Uterus		Hydrometra	Moderate
Note: HYDROMETRA TGLs = 2-8			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 368

TRT#: 6

SEX: Female

DAY ON TEST: 559

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Tooth
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Brain		Compression	
[Compression TGLS = 2-1]			
Clitoral Gland		Ectasia	Mild
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
	Centrilobular	Degeneration	Diffuse, Mild
		Hematopoietic Cell Proliferation	Minimal
		Vacuolization Cytoplasmic	Focal, Moderate
Note: VACUOLIZ CYTO TGLs = 4-3.2			
Lung		Hyperplasia	Lymphoid, Mild
Pancreas		Atrophy	Minimal
Pharynx	Palate	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 5-10.1			
Note: EARLY INVASION..			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-2.1]			
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 1-8,8.1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 369

TRT#: 6

SEX: Female

DAY ON TEST: 625

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	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
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Clitoral Gland	Bilateral	Carcinoma	
Note: CARCINOMA	TGLs = 1-8.1		
Kidney	Renal Tubule	Pigmentation	Mild
Liver		Basophilic Focus	Moderate
		Eosinophilic Focus	Mild
		Hematopoietic Cell Proliferation	Mild
		Neoplastic Nodule	
Note: EOSIN FOCUS	TGLs = 6-3.1		
Note: [HEMA CELL PROL]	TGLs = 7-3.2		
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mandibular	Angiectasis	Moderate
	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Note: ANGIECTASIS	TGLs = 5-9		
Pharynx	Palate	Hyperkeratosis	Focal, Marked
Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 3-2]			
Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 2-3]			
Tongue		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 4-13		
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 370

TRT#: 6

SEX: Female

DAY ON TEST: 683

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Zymbal's Gland

OBSERVATIONS

Bone	Sternum	Osteopetrosis	Mild
Heart		Cardiomyopathy	Chronic, Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 2..			
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	
Note: ECTASIA TGLs = 1-10			
Note: FIBROADENOMA TGLs = 7			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-2			
Spleen		Leukemia Mononuclear	
Ureter	Transit Epithe	Papilloma	
Note: [PAPILLOMA] TGLs = 2-14			
Note: REPRESENTS LESION SAID TO INVOLVE CERVIX			
Uterus		Polyp Stromal	Multiple
Note: POLYP STROMAL TGLs = 4,5-8,14			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 371

TRT#: 6

SEX: Female

DAY ON TEST: 683

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Ovary	Parathyroid Gland	Salivary Glands	Skin
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Compression	
[Compression TGLS = 10-1]			
Clitoral Gland		Ectasia	Moderate
Note: ECTASIA TGLs = 2-8			
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Ascend Colon, Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 7-7			
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 6-5			
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-3.1			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Ectasia	Moderate
Note: ECTASIA TGLs = 1-10			
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 3-13			
Nose		Inflammation	Acute, Mild
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 11-2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 371

TRT#: 6

SEX: Female

DAY ON TEST: 683

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen Note: LEUKEMIA MONUC TGLs = 8-3		Leukemia Mononuclear	
Stomach	Forestomach Forestomach	Acanthosis Inflammation Polyp Stromal	Moderate Chronic, Moderate
Uterus Note: POLYP STROMAL TGLs = 5-8			
Zymbal's Gland		Ectasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 372

TRT#: 6

SEX: Female

DAY ON TEST: 620

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Esophagus
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	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow		Hypoplasia	Moderate
Clitoral Gland		Atrophy	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Diffuse, Moderate
Note: ML IS STAGE 3..			
Note: ANOM HEPAT LOB TGLs = 4-3.1			
Note: LEUKEMIA MONUC TGLs = 5,6-3.1			
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 8-4,4.1]			
Lymph Node	Iliac	Leukemia Mononuclear	
	Lumbar	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2,3,7,12,13,15-9,7,13,15,16,17			
Pancreas		Leukemia Mononuclear	
Pharynx	Palate	Hyperplasia	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 372

TRT#: 6
DOSE: 0.125

SEX: Female
DISP: Moribund

DAY ON TEST: 620
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 11-14		
Pituitary Gland	Pars Distalis	Adenoma
[Adenoma TGLS = 10-2]		
Spleen		Leukemia Mononuclear
Note: LEUKEMIA MONUC TGLs = 14,16-3		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 373

TRT#: 6

SEX: Female

DAY ON TEST: 683

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Zymbal's Gland		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Moderate
	Medulla	Pheochromocytoma Benign	
Clitoral Gland		Adenoma	
		Ectasia	Moderate
Note: ADENOMA TGLs = 1-8,13			
Note: ECTASIA TGLs = 2-8			
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Mild
		Leukemia Mononuclear	
Note: ML IS STAGE 1..			
Note: LEUKEMIA MONUC TGLs = 7-3.1			
Lung		Hyperplasia	Lymphoid, Minimal
Pancreas		Atrophy	Mild
Pharynx	Palate	Hyperplasia	Squamous, Mild
Note: [HYPERPLASIA] TGLs = 6-12			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
[Adenoma TGLS = 5-2]			
Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
Uterus	Endometrium	Cyst	
		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 373

TRT#: 6

SEX: Female

DAY ON TEST: 683

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: POLYP STROMAL TGLs = 4-8

Note: CYST TGLs = 3-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 374

TRT#: 6

SEX: Female

DAY ON TEST: 659

DOSE: 0.125

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Brain		Compression	
[Compression TGLS = 6-1]			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear Regeneration	Multifocal, Moderate
Note: LEUKEMIA MONUC TGLs = 2-3.1			
Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Focal, Moderate Histiocyte, Marked
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-2]			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7,8-3			
Thyroid Gland	C Cell	Adenoma	
Zymbal's Gland		Ectasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 376

TRT#: 6

SEX: Female

DAY ON TEST: 683

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Clitoral Gland	Esophagus
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	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
Note: ANOM HEPAT LOB	TGLs = 4-3.1		
Note: LEUKEMIA MONUC	TGLs = 5-3.1		
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-13		
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Note: ADENOMA	TGLs = 7-2		
[Adenoma TGLS = 8-2]			
Spleen		Hyperplasia	Reticulum Cell, Moderate
		Leukemia Mononuclear	
Note: HYPERPLASIA	TGLs = 3-3		
Note: LEUKEMIA MONUC	TGLs = 2-3		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 376

TRT#: 6
DOSE: 0.125

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 683
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Adenoma	
Zymbal's Gland		Ectasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 377

TRT#: 6

SEX: Female

DAY ON TEST: 598

DOSE: 0.125

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Mammary Gland
Nose	Ovary	Parathyroid Gland	Pituitary Gland
Salivary Glands	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Leukemia Mononuclear	
Clitoral Gland		Ectasia	Moderate
Heart		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4,4.1			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-9			
Note: LEUKEMIA MONUC TGLs = 3-13			
Note: LEUKEMIA MONUC TGLs = 2-7			
Note: LEUKEMIA MONUC TGLs = 7-6.1			
Pancreas		Leukemia Mononuclear	
Pharynx	Palate	Hyperplasia	Focal, Mild
Skin		Necrosis	Focal, Moderate
Note: NECROSIS TGLs = 6-14			
Spleen		Leukemia Mononuclear	
Stomach	Forestomach	Acanthosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 377

TRT#: 6
DOSE: 0.125

SEX: Female
DISP: Dead

DAY ON TEST: 598
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland
Note: ADENOMA TGLs = 5-10

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 378

TRT#: 6

SEX: Female

DAY ON TEST: 683

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thymus

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Spleen
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Bone
Kidney
Liver

Lung
Pituitary Gland
[Adenoma TGLS = 2-2]

Sternum

Pars Distalis

Osteopetrosis
Nephropathy
Basophilic Focus
Vacuolization Cytoplasmic
Hyperplasia
Adenoma

Moderate
Chronic, Mild
Minimal
Multifocal, Mild
Lymphoid, Mild

Skin
Note: PAPILLOMA IS ON SKIN OF CHEEK IN X'S OF HEAD.SLIDE 12.
Thyroid Gland
[Carcinoma TGLS = 3-2]
Zymbal's Gland

C Cell

Squamous Cell Papilloma

Carcinoma

Hyperplasia

Squamous, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 379

TRT#: 6

SEX: Female

DAY ON TEST: 683

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Bone	Tibia	Osteosarcoma	
Note: OSTEOSARC	TGLs = 5-13		
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	
[Granuloma TGLS = 2-3.1]			
Lung		Osteosarcoma	Metastatic (Bone), Multiple (Bone)
Note: OSTEOSARC	TGLs = 6-4,4.1		
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-2]			
Zymbal's Gland		Ectasia	Mild
		Hyperplasia	Squamous, Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 380

TRT#: 6

SEX: Female

DAY ON TEST: 683

DOSE: 0.125

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone Marrow

Brain

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lymph Node - Mandibular

Lymph Node - Mesenteric

Mammary Gland

Nose

Ovary

Pancreas

Parathyroid Gland

Salivary Glands

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Zymbal's Gland

OBSERVATIONS

Bone

Sternum

Osteopetrosis

Mild

Clitoral Gland

Hyperplasia

Squamous, Multifocal, Mild

Note: HYPERPLASIA TGLs = 1-8

Heart

Cardiomyopathy

Chronic, Mild

Kidney

Nephropathy

Chronic, Minimal

Liver

Angiectasis

Focal, Minimal

Lung

Basophilic Focus

Moderate

Pharynx

Hyperplasia

Lymphoid, Mild

Note: NODULE MISSING IN RECUT..

Pituitary Gland

Pars Distalis

Cyst

[Cyst TGLS = 4-2]

Uterus

Polyp Stromal

Note: POLYP STROMAL TGLs = 3-8

Vagina

Cyst

Moderate

Note: [CYST] TGLs = 2-8

Note: CYST IS FILLED W/ POLYMORPHS AND HAS SQUAMOUS LINING

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 463

TRT#: 8

SEX: Female

DAY ON TEST: 408

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Nose
Salivary Glands
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Trachea

OBSERVATIONS

Heart
Kidney

Cardiomyopathy
Hydronephrosis
Nephropathy

Chronic, Mild
Mild
Chronic, Mild

[Hydronephrosis TGLS = 3-5]

Liver

Basophilic Focus
Hematopoietic Cell Proliferation
Hepatodiaphragmatic Nodule

Minimal
Minimal

Note: HYPERBASOPHILIA

Note: ANOM HEPAT LOB TGLs = 8-3.1

Pituitary Gland

Pars Distalis

Cyst

Moderate

[Cyst TGLS = 5,6-2]

Spleen

Hematopoietic Cell Proliferation

Moderate

Note: HEMA CELL PROL TGLs = 4-3

Urinary Bladder

Sarcoma Stromal

Metastatic (Uterus)

Uterus

Sarcoma Stromal

Note: SARC STROMAL TGLs = 1-8.1,8.2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 464

TRT#: 8

SEX: Female

DAY ON TEST: 453

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Esophagus	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	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-2		
Bone	Sternum	Osteopetrosis	Marked
Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 1-8		
Heart		Cardiomyopathy	Chronic, Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 11-3.1		
Lung		Hyperplasia	Lymphoid, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-4,4.1		
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-9		
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 7-13		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-3		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 464

TRT#: 8
DOSE: 0.25

SEX: Female
DISP: Dead

DAY ON TEST: 453
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus
Note: POLYP STROMAL TGLs = 2-8

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 466

TRT#: 8

SEX: Female

DAY ON TEST: 316

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Liver	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

OBSERVATIONS

Brain	Cerebrum	Astrocytoma Malignant	
[Astrocytoma Malignant TGLS = 3-1]			
Lung		Congestion	Moderate
[Hyperplasia TGLS = 6-4,4.1]		Hyperplasia	Lymphoid, Mild
Lymph Node	Mediastinal	Congestion	Minimal
Note: CONGESTION TGLs = 5-9			
Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
Thymus		Congestion	Moderate
Note: CONGESTION TGLs = 4-9			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 470

TRT#: 8

SEX: Female

DAY ON TEST: 372

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Salivary Glands
Thymus
Uterus

OBSERVATIONS

Clitoral Gland

Carcinoma

Ectasia

Moderate

Note: CARCINOMA TGLs = 2-8.1

Liver

Basophilic Focus

Minimal

Eosinophilic Focus

Minimal

Hematopoietic Cell Proliferation

Mild

Regeneration

Focal, Moderate

[Hematopoietic Cell Proliferation TGLs = 7-3.1]

Pharynx

Palate

Squamous Cell Papilloma

Note: SQ CL PAPILLOM TGLs = 5-14

Spleen

Hematopoietic Cell Proliferation

Moderate

[Hematopoietic Cell Proliferation TGLs = 4-3]

Tongue

Squamous Cell Papilloma

Note: SQ CL PAPILLOM TGLs = 6-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 475

TRT#: 8

SEX: Female

DAY ON TEST: 495

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Thymus
Uterus

OBSERVATIONS

Liver

Basophilic Focus
Erythrophagocytosis
Hematopoietic Cell Proliferation
Hyperplasia
Hematopoietic Cell Proliferation
Carcinoma

Minimal
Moderate
Mild
Lymphoid, Mild
Moderate

Lung

Spleen

Zymbal's Gland

Note: CARCINOMA TGLs = 1-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 476

TRT#: 8

SEX: Female

DAY ON TEST: 682

DOSE: 0.25

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Ovary
Skin
Thymus
Uterus

OBSERVATIONS

Heart
Kidney
Liver
Lung
Lymph Node
Mammary Gland
 Note: ADENOCARC TGLs = 1-10
Pituitary Gland
 Note: ADENOMA TGLs = 4-2
Tongue
 Note: HYPERPLASIA TGLs = 3-13

Mesenteric

Pars Distalis

Epithelium

Cardiomyopathy
Nephropathy
Basophilic Focus
Hyperplasia
Hyperplasia
Adenocarcinoma

Adenoma

Hyperplasia

Chronic, Mild
Chronic, Mild
Minimal
Lymphoid, Mild
Reticulum Cell, Moderate

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 477

TRT#: 8
DOSE: 0.25

SEX: Female
DISP: Dead

DAY ON TEST: 645
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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 - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Bone	Sternum	Osteopetrosis	Moderate
Brain		Compression	
Note: COMPRESSION TGLs = 8-1			
Clitoral Gland	Bilateral	Carcinoma	
Note: CARCINOMA TGLs = 1-8.1			
Kidney	Renal Tubule	Nephropathy	Chronic, Moderate
		Pigmentation	Moderate
Liver		Basophilic Focus	Marked
		Eosinophilic Focus	Minimal
		Hematopoietic Cell Proliferation	Moderate
	Centrilobular	Necrosis	Mild
Note: [HEMA CELL PROL] TGLs = 3-3.1			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 6-13			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 9-2			
Stomach	Glandular	Erosion	Multifocal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 478

TRT#: 8

SEX: Female

DAY ON TEST: 466

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone Marrow

Brain

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lymph Node - Mandibular

Mammary Gland

Nose

Ovary

Pancreas

Parathyroid Gland

Pituitary Gland

Salivary Glands

Skin

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Uterus

Zymbal's Gland

OBSERVATIONS

Clitoral Gland

Carcinoma

Note: CARCINOMA TGLs = 2-10.1

Heart

Cardiomyopathy

Chronic, Mild

Kidney

Nephropathy

Chronic, Minimal

Liver

Basophilic Focus

Mild

Hematopoietic Cell Proliferation

Mild

Centrilobular

Necrosis

Diffuse, Moderate

Note: NECROSIS TGLs = 1-3.1

Lung

Hyperplasia

Lymphoid, Mild

Lymph Node

Mesenteric

Hyperplasia

Reticulum Cell, Moderate

Spleen

Hematopoietic Cell Proliferation

Moderate

[Hematopoietic Cell Proliferation TGLS = 3-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 479

TRT#: 8

SEX: Female

DAY ON TEST: 619

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone Marrow

Brain

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lymph Node - Mandibular

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

Uterus

Zymbal's Gland

OBSERVATIONS

Clitoral Gland

Carcinoma

Note: CARCINOMA TGLs = 1-8

Note: NOT POSSIBLE TO TELL IF MASS IS BILATERAL..

Heart

Cardiomyopathy

Chronic, Mild

Kidney

Nephropathy

Chronic, Minimal

Liver

Basophilic Focus

Minimal

Lung

Vacuolization Cytoplasmic

Diffuse, Mild

Hyperplasia

Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 480

TRT#: 8
DOSE: 0.25

SEX: Female
DISP: Dead

DAY ON TEST: 600
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Clitoral Gland	Esophagus
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 - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Clitoral Gl			
Note: ONE GLAND PRESENT..			
Heart		Leukemia Mononuclear	
Kidney	Transit Epithe	Hyperplasia	Mild
Liver		Leukemia Mononuclear	
		Regeneration	Multifocal, Moderate
Note: REGENERATION TGLs = 3-3.2			
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC TGLs = 1,2,4-3.1			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
Stomach	Forestomach	Acanthosis	Mild
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 5-10			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 481

TRT#: 8
DOSE: 0.25

SEX: Female
DISP: Dead

DAY ON TEST: 607
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Parathyroid Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Pituitary Gland

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 1-8		
Heart		Cardiomyopathy	Chronic, Mild
Liver		Basophilic Focus	Mild
		Degeneration	Cystic, Focal, Moderate
Note: SEE SLIDE #3.2 RECUT FOR DEG.			
Lung		Hyperplasia	Lymphoid, Mild
Pharynx		Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 8-14		
Skin		Hypoplasia	Focal, Moderate
		Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 7-13		
Note: HYPOPLASIA	TGLs = 9-15		
Spleen		Hematopoietic Cell Proliferation	Marked
Uterus		Adenocarcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 482

TRT#: 8
DOSE: 0.25

SEX: Female
DISP: Dead

DAY ON TEST: 624
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	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 - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Zymbal's Gland			

OBSERVATIONS

Clitoral Gland	Bilateral	Adenoma	
Note: [ADENOMA] TGLs = 1-8.1			
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Mild
		Leukemia Mononuclear	
Note: ML IS STAGE 1..			
Pharynx	Palate	Squamous Cell Papilloma	
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-2]			
Spleen		Leukemia Mononuclear	
Uterus		Adenocarcinoma	
	Endometrium	Cyst	
Note: CYST TGLs = 2-8			
Note: [ADENOCARC] TGLs = 3-8			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 483

TRT#: 8

SEX: Female

DAY ON TEST: 527

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Clitoral Gland	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Zymbal's Gland

MISSING

Bone Marrow	Thymus
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OBSERVATIONS

Brain	Histiocytic Sarcoma
Kidney	Histiocytic Sarcoma
Note: [HISTIO SARC] TGLs = 9-5	
Liver	Histiocytic Sarcoma
Note: [HISTIO SARC] TGLs = 15,17,18-3.1,3.2	
Lung	Histiocytic Sarcoma
Note: [HISTIO SARC] TGLs = 5-4,4.1	
Lymph Node	Iliac
	Lumbar
	Mandibular
	Mediastinal
	Mesenteric
	Pancreatic
	Renal
Note: [HISTIO SARC] TGLs = 16-9,5,13,3.1,14,6	
Note: [HISTIO SARC] TGLs = 6,11,12,13,14,	
Ovary	Histiocytic Sarcoma
Spleen	Histiocytic Sarcoma
Note: [HISTIO SARC] TGLs = 1,2-3	
Urinary Bladder	Histiocytic Sarcoma
Uterus	Histiocytic Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 483

TRT#: 8

SEX: Female

DAY ON TEST: 527

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [HISTIO SARC] TGLs = 7,8-8,8.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 484

TRT#: 8

SEX: Female

DAY ON TEST: 578

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Kidney
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Mammary Gland

OBSERVATIONS

Clitoral Gland		Ectasia	Mild
Note: ECTASIA	TGLs = 1-8		
Heart		Cardiomyopathy	Chronic, Mild
Intestine Small	Jejunum	Adenocarcinoma	Cystic, Mucinous
Note: ADENOCARC	TGLs = 5-6.1		
Liver		Basophilic Focus	Minimal
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mediastinal	Congestion	Moderate
Note: CONGESTION	TGLs = 2-13		
Pharynx	Palate	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 3-12.1		
Spleen		Atrophy	Moderate
Note: ATROPHY	TGLs = 4-3		
Zymbal's Gland		Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 485

TRT#: 8

SEX: Female

DAY ON TEST: 502

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Skin
Thymus
Uterus

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Pancreas
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Liver
Lung
Lymph Node
Ovary
 Note: CYST TGLs = 2-8
Pituitary Gland
Zymbal's Gland

Mandibular

Pars Distalis

Granuloma
Hyperplasia
Hyperplasia
Cyst

Hyperplasia
Carcinoma
Ectasia
Hyperplasia

Moderate
Lymphoid, Minimal
Lymphoid, Moderate
Moderate

Focal, Minimal

Mild
Focal, Mild

Note: CARCINOMA TGLs = 1-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 486

TRT#: 8

SEX: Female

DAY ON TEST: 646

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Skin
Thymus

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Spleen
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Stomach - Glandular
Uterus

OBSERVATIONS

Clitoral Gl
Note: ONE GLAND IS PRESENT..

Heart
Kidney
Liver
Lung
Mammary Gland

Cardiomyopathy
Nephropathy
Basophilic Focus
Hyperplasia
Fibroadenoma
Galactocele

Chronic, Mild
Chronic, Mild
Moderate
Lymphoid, Mild
Multiple

Note: GALACTOCELE TGLs = 3-8
Note: FIBROADENOMA TGLs = 1,2-13,14

Mesentery
Note: NECROSIS TGLs = 4-15

Fat

Necrosis

Moderate

Pituitary Gland
[Cyst TGLS = 5-2]

Pars Distalis

Cyst

Thyroid Gland
[Carcinoma TGLS = 7-2]

Follicular Cel

Carcinoma

Zymbal's Gland

Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 487

TRT#: 8

SEX: Female

DAY ON TEST: 682

DOSE: 0.25

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Thymus
Zymbal's Gland

Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Skin
Thyroid Gland

OBSERVATIONS

Bone Marrow
Clitoral Gland

Hyperplasia
Adenoma
Ectasia

Moderate

Moderate

Note: ADENOMA TGLs = 2-8

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Eosinophilic Focus
Leukemia Mononuclear

Chronic, Mild
Chronic, Mild
Minimal
Minimal

Note: ML IS STAGE 2..

Lung
Lymph Node
Spleen

Mesenteric

Hyperplasia
Hyperplasia
Hematopoietic Cell Proliferation
Leukemia Mononuclear
Squamous Cell Carcinoma

Lymphoid, Mild
Reticulum Cell, Moderate
Moderate

Tongue

Note: SQUAM CEL CARC TGLs = 4-13

Uterus

Adenoma

Note: ADENOMA TGLs = 3-8

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 488

TRT#: 8

SEX: Female

DAY ON TEST: 623

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland	Nose
Ovary	Parathyroid Gland	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Zymbal's Gland	

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Diffuse, Moderate
Bone Marrow		Leukemia Mononuclear	
Clitoral Gland		Ectasia	Marked
Heart		Hyperplasia	Focal, Mild
		Cardiomyopathy	Chronic, Mild
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: HEPATIC LNN. CONSIDERED MESENTERIC..			
Note: LEUKEMIA MONUC TGLs = 1,2,3,9-7,13,9,15			
Pancreas		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-6			
Skin		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 5-14			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6,7-3			
Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 488

TRT#: 8

SEX: Female

DAY ON TEST: 623

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 4-9

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 489

TRT#: 8

DOSE: 0.25

SEX: Female

DISP: Moribund

DAY ON TEST: 585

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Salivary Glands
Thymus
Uterus

OBSERVATIONS

Bone Marrow
Clitoral Gland Bilateral
Note: ONE GLD HAS A POORLY DIFFERENTIATED CA.
Note: CARCINOMA TGLs = 1-8.1

Hyperplasia
Carcinoma Moderate

Heart
Kidney
Liver
Note: ML IS STAGE 2..
Note: LEUKEMIA MONUC TGLs = 2-3.1

Cardiomyopathy
Nephropathy
Leukemia Mononuclear
Chronic, Mild
Chronic, Mild

Lung
Note: PRIMARY- SITE IS UNKNOWN
Note: [SQUAM CEL CARC] TGLs = 3-4.1

Hyperplasia
Squamous Cell Carcinoma
Lymphoid, Mild
Metastatic (Uncertain Primary Site)

Pharynx Palate
Note: SQ CL PAPILOM TGLs = 6-14

Squamous Cell Papilloma

Spleen
Note: LEUKEMIA MONUC TGLs = 7-3

Leukemia Mononuclear

Tongue
Note: SQ CL PAPILOM TGLs = 5-13

Squamous Cell Papilloma

Zymbal's Gland

Ectasia Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 490

TRT#: 8

SEX: Female

DAY ON TEST: 585

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic
Lymph Node - Mandibular	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Clitoral Gland	Bilateral	Carcinoma	
Note: CARCINOMA	TGLs = 2,3-8.1		
Intestine Small	Jejunum	Adenocarcinoma	Cystic, Mucinous
Note: ADENOCARC	TGLs = 8-6.1		
Kidney		Nephropathy	Chronic, Mild
Liver		Hematopoietic Cell Proliferation	Moderate
		Neoplastic Nodule	
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 4-7		
Spleen		Hematopoietic Cell Proliferation	Marked
Tongue		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 7-14		
Zymbals GI			
Note: ONE GLAND IS PRESENT..			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 491

TRT#: 8

SEX: Female

DAY ON TEST: 585

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

OBSERVATIONS

Clitoral Gland	Bilateral	Carcinoma	
Note: CARCINOMA	TGLs = 4-8.1		
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Marked
		Neoplastic Nodule	
Note: NEOPLASTIC NOD	TGLs = 2-3.1		
Note: EOSIN FOCUS	TGLs = 3-3.1		
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Hyperplasia	Reticulum Cell, Mild
Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 6-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 492

TRT#: 8

SEX: Female

DAY ON TEST: 646

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Thymus
Uterus

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lung
Nose
Salivary Glands
Thyroid Gland
Zymbal's Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Stomach - Forestomach
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Clitoral Gland
Note: CARCINOMA TGLs = 2-8.1

Bilateral

Carcinoma

Kidney
Liver

Nephropathy
Eosinophilic Focus
Leukemia Mononuclear
Regeneration

Chronic, Mild
Marked
Multifocal, Marked

Note: ML IS STAGE 2..
Note: [EOSIN FOCUS] TGLs = 4-3.1
[Regeneration TGLS = 5-3.2]

Pituitary Gland
[Angiectasis TGLS = 7-2]

Pars Distalis

Angiectasis

Focal, Mild

Skin
Note: SQ CL PAPILOM TGLs = 6-13

Squamous Cell Papilloma

Spleen
[Leukemia Mononuclear TGLS = 1-3]

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 493

TRT#: 8

SEX: Female

DAY ON TEST: 408

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Liver	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-8.1		
Lung		Hyperplasia	Lymphoid, Mild
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 2-13		
Nose		Fungus	Mild
Pharynx	Palate	Hyperkeratosis	Focal, Moderate
Note: HYPERKERATOSIS	TGLs = 3-14		
Spleen		Hematopoietic Cell Proliferation	Moderate
Tooth	Gingiva	Hyperplasia	Focal, Moderate
Note: HYPERPLASIA	TGLs = 4-14		
Zymbal's Gland		Ectasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 494

TRT#: 8

SEX: Female

DAY ON TEST: 564

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Mammary Gland	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Clitoral Gland		Ectasia	Moderate
Note: ECTASIA	TGLs = 2-8		
Heart	Atrium	Thrombosis	
Intestine Large	Rectum	Inflammation	Acute, Minimal
	Rectum	Necrosis	Focal, Mild
Kidney	Renal Tubule	Dilatation	Mild
		Nephropathy	Chronic, Mild
Liver		Hematopoietic Cell Proliferation	Mild
		Hepatocellular Carcinoma	
		Necrosis	Multifocal, Minimal
Note: NECROSIS	TGLs = 3-3.2		
Note: HEPATOCLR CARC	TGLs = 4-3.2		
Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mesenteric	Inflammation	Acute, Mild
Nose		Inflammation	Acute, Marked
Pharynx	Palate	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 6-12.1		
Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Mild
Stomach	Forestomach	Acanthosis	Mild
Zymbal's Gland		Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 494

TRT#: 8

SEX: Female

DAY ON TEST: 564

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 5-10

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 495

TRT#: 8

SEX: Female

DAY ON TEST: 513

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Clitoral Gland	Esophagus
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	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4,5-3.1		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-4,4.1		
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-3		
Zymbal's Gland		Ectasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 496

TRT#: 8

SEX: Female

DAY ON TEST: 463

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Thymus
Zymbal's Gland

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland

Brain
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Trachea

Esophagus
Intestine Small - Duodenum
Kidney
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Adrenal Gland
Clitoral Gland
Note: CARCINOMA TGLs = 1-10.1

Cortex

Hypertrophy
Carcinoma

Focal, Mild

Heart
Liver
Note: ANOM HEPAT LOB TGLs = 3-3.1

Centrilobular
Centrilobular

Cardiomyopathy
Degeneration
Hematopoietic Cell Proliferation
Hepatodiaphragmatic Nodule
Necrosis

Chronic, Mild
Diffuse, Moderate
Mild
Diffuse, Moderate

Lung
Note: LEUKOCYTOSIS NOTED..
Spleen
[Hematopoietic Cell Proliferation TGLS = 4-3]

Hyperplasia

Lymphoid, Mild

Uterus
Note: POLYP STROMAL TGLs = 2-8.1

Polyp Stromal

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 497

TRT#: 8

SEX: Female

DAY ON TEST: 635

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Esophagus	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	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 2-1		
Clitoral Gland	Bilateral	Adenoma	
		Ectasia	Moderate
Note: [ADENOMA]	TGLs = 1-8		
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Cecum	Inflammation	Acute, Mild
Note: [INFLAMMATION]	TGLs = 3-7		
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Zymbal's Gland		Ectasia	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 498

TRT#: 8

SEX: Female

DAY ON TEST: 474

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thyroid Gland

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Skin
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Uterus

MISSING

Thymus

OBSERVATIONS

Clitoral Gland

Note: ADENOMA TGLs = 1-8.1
Kidney
Liver
Lung
Pituitary Gland
[Cyst TGLS = 3-2]
Spleen

Zymbal's Gland

Note: CARCINOMA TGLs = 2-10.1

Pars Distalis

Adenoma
Hyperplasia Focal, Moderate

Nephropathy
Basophilic Focus
Hyperplasia
Cyst

Hematopoietic Cell Proliferation
Pigmentation
Carcinoma
Hyperplasia Squamous, Focal, Minimal

Chronic, Minimal
Mild
Lymphoid, Mild
Moderate

Mild
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 499

TRT#: 8

SEX: Female

DAY ON TEST: 402

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Skin
Thymus
Uterus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Spleen
Thyroid Gland

OBSERVATIONS

Clitoral Gland
Note: CARCINOMA TGLs = 1-8.1

Lung
Pituitary Gland
[Adenoma TGLS = 3-2]

Salivary Glands
Zymbal's Gland

Pars Distalis

Carcinoma

Hyperplasia
Adenoma

Atrophy
Carcinoma
Hyperplasia

Lymphoid, Mild

Mild

Squamous, Focal, Minimal

Note: CARCINOMA TGLs = 4-10.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 500

TRT#: 8

SEX: Female

DAY ON TEST: 646

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone	Sternum	Osteopetrosis	Moderate
Brain		Compression	
	[Compression TGLS = 9-1]		
Clitoral Gland		Adenoma	
		Hyperplasia	Squamous, Focal, Mild
Note: [ADENOMA] TGLs = 2-8			
Heart		Cardiomyopathy	Chronic, Mild
Intestine Large	Colon, Descend Colon	Polyp Adenomatous	
Note: POLYP ADENOMAT TGLs = 8-7			
Intestine Small	Jejunum	Adenocarcinoma	
Note: ADENOCARC TGLs = 7-6.1			
Note: ARISING IN A POLYP..			
Kidney		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
Note: ML IS STAGE 3..			
Note: LEUKEMIA MONUC TGLs = 4-3.1			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Ectasia	Moderate
Note: ECTASIA TGLs = 1-10			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 500

TRT#: 8
DOSE: 0.25

SEX: Female
DISP: Moribund

DAY ON TEST: 646
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland [Adenoma TGLS = 10-2]	Pars Distalis	Adenoma
Spleen Note: LEUKEMIA MONUC TGLs = 5,6-3		Leukemia Mononuclear
Zymbals GI Note: ONE GLAND IS PRESENT..		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 501

TRT#: 8

SEX: Female

DAY ON TEST: 581

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	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
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Diffuse, Moderate
Clitoral Gland		Ectasia	Mild
		Hyperplasia	Focal, Mild
Esophagus		Hyperkeratosis	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Vacuolization Cytoplasmic	Diffuse, Moderate
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mandibular	Hyperplasia	Lymphoid, Moderate
Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
Note: [ANGIECTASIS] TGLs = 4-2			
Salivary Glands		Atrophy	Moderate
Spleen		Atrophy	Moderate
		Pigmentation	Moderate
Zymbal's Gland		Carcinoma	
		Ectasia	Marked
		Hyperplasia	Squamous, Focal, Minimal

Note: CARCINOMA TGLs = 3-10,12.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 502

TRT#: 8

SEX: Female

DAY ON TEST: 502

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Thymus
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Skin
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Pancreas
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Liver

Lung
Lymph Node
Mammary Gland
 Note: FIBROADENOMA TGLs = 4-10.2
Pituitary Gland
 [Cyst TGLS = 2-2]
Spleen
 [Hematopoietic Cell Proliferation TGLS = 1-3]
Zymbal's Gland

 Note: CARCINOMA TGLs = 3-10.1

Mandibular

Pars Distalis

Basophilic Focus
Hematopoietic Cell Proliferation
Hyperplasia
Hyperplasia
Fibroadenoma

Cyst

Hematopoietic Cell Proliferation

Carcinoma
Ectasia

Mild
Mild
Lymphoid, Mild
Lymphoid, Moderate

Mild

Moderate

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 503

TRT#: 8

SEX: Female

DAY ON TEST: 513

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Kidney
Ovary
Salivary Glands
Thymus
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Skin
Thyroid Gland
Zymbal's Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Trachea

MISSING

Mammary Gland

OBSERVATIONS

Clitoral Gland

Carcinoma
Ectasia

Marked

Note: CARCINOMA TGLs = 3-8.1
Note: KERATIN FILLED ECTATIC DUCT..

Liver

Clear Cell Focus
Granuloma
Hyperplasia
Necrosis

Mild
Moderate
Lymphoid, Mild
Moderate

Lung
Mesentery

Fat

Note: NECROSIS TGLs = 2-13

Spleen

Hematopoietic Cell Proliferation

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 504

TRT#: 8

SEX: Female

DAY ON TEST: 682

DOSE: 0.25

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Bone	Sternum	Osteopetrosis	Marked
Brain	Cranial Nerve	Carcinoma	Metastatic (Zymbal'S Gland)
Ear		Carcinoma	Metastatic (Zymbal'S Gland)
Note: CARCINOMA TGLs = 4-14			
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Moderate
		Vacuolization Cytoplasmic	Multifocal, Mild
Note: VACUOLIZ CYTO TGLs = 7,8-3.1			
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
Ovary		Cyst	
Note: CYST TGLs = 1-8			
Pituitary Gland	Pars Distalis	Angiectasis	Focal, Moderate
Note: ANGIECTASIS TGLs = 3-2			
Tongue		Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 5-13			
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 2-8			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 6-14			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 505

TRT#: 8

SEX: Female

DAY ON TEST: 682

DOSE: 0.25

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Thymus
Uterus

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Skin
Thyroid Gland
Zymbal's Gland

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

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Bone
Clitoral Gland
Kidney
Liver

Sternum

Osteopetrosis
Adenoma
Nephropathy
Basophilic Focus
Leukemia Mononuclear
Neoplastic Nodule

Moderate
Chronic, Mild
Marked

Note: NEOPLASTIC NOD TGLs = 2-3.1
Note: ML IS STAGE 1..

Lung

Hyperplasia
Infiltration Cellular
Ectasia

Lymphoid, Minimal
Histiocyte, Mild
Mild

Mammary Gland

Duct

Note: ECTASIA TGLs = 1-10

Spleen

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 506

TRT#: 8

SEX: Female

DAY ON TEST: 339

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland
Zymbal's Gland

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Liver
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

OBSERVATIONS

Clitoral Gland
Kidney
Lung

Ectasia
Nephropathy
Hyperplasia

Moderate
Chronic, Minimal
Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 507

TRT#: 8

SEX: Female

DAY ON TEST: 592

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Esophagus	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	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Clitoral Gland		Ectasia	Marked
Kidney		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-5		
Liver		Leukemia Mononuclear	
		Regeneration	Focal, Marked
		Vacuolization Cytoplasmic	Diffuse, Moderate
Note: LEUKEMIA MONUC	TGLs = 5,6-3.1		
Note: ML IS STAGE 3..			
Note: REGENERATION	TGLs = 7-3.1		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 3		
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 9-14		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 8-2		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-3		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 507

TRT#: 8
DOSE: 0.25

SEX: Female
DISP: Moribund

DAY ON TEST: 592
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 508

TRT#: 8
DOSE: 0.25

SEX: Female
DISP: Moribund

DAY ON TEST: 534
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus	Zymbal's Gland	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland [Necrosis TGLS = 5-2]	Cortex	Necrosis	Multifocal, Moderate
Bone	Sternum	Osteopetrosis	Moderate
Clitoral Gland Note: CARCINOMA TGLs = 3-10.1		Carcinoma	
Intestine Large Note: ULCER TGLs = 1-7	Cecum	Ulcer	Marked
Kidney	Renal Tubule	Nephropathy	Chronic, Mild
		Pigmentation	Moderate
Liver	Centrilobular	Basophilic Focus	Marked
		Degeneration	Diffuse, Mild
Lung	Palate	Hyperplasia	Lymphoid, Mild
Pharynx Note: HYPERKERATOSIS TGLs = 6-13		Hyperkeratosis	Focal, Moderate
Skin	Subcut Tiss	Inflammation	Acute, Marked
Spleen Note: HEMA CELL PROL TGLs = 2-3		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 509 **TRT#:** 8 **SEX:** Female **DAY ON TEST:** 600
DOSE: 0.25 **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Esophagus	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus	Zymbal's Gland		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hematopoietic Cell Proliferation	Mild
Bone Marrow		Myelofibrosis	Marked
Clitoral Gland	Bilateral	Carcinoma	
Note: CARCINOMA TGLs = 2-8.1			
Heart		Cardiomyopathy	Chronic, Mild
Note: THROMBUS TGLs = 5-3	Atrium	Thrombosis	
Intestine Large	Cecum	Necrosis	Focal, Moderate
Kidney		Nephropathy	Chronic, Minimal
Liver		Hematopoietic Cell Proliferation	Moderate
		Necrosis	Multifocal, Moderate
		Regeneration	Focal, Moderate
Note: VACUOLIZ CYTO TGLs = 3-3.1		Vacuolization Cytoplasmic	Diffuse, Marked
Note: NECROSIS TGLs = 4-3.1			
Pharynx	Palate	Squamous Cell Papilloma	
Note: SQ CL PAPILOM TGLs = 6-13			
Stomach	Forestomach	Acanthosis	Moderate
Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 509

TRT#: 8
DOSE: 0.25

SEX: Female
DISP: Moribund

DAY ON TEST: 600
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 510

TRT#: 8

SEX: Female

DAY ON TEST: 296

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Spleen
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Uterus

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus

OBSERVATIONS

Kidney
Note: NEPHROPATHY TGLs = 3-5

Nephropathy
Chronic, Minimal

Liver
Lung Alveolar Epith

Basophilic Focus
Hyperplasia
Hyperplasia
Inflammation
Cyst
Carcinoma
Minimal
Focal, Minimal
Lymphoid, Mild
Chronic, Minimal
Mild

Thyroid Gland
Zymbal's Gland
Note: WELL DIFF..
Note: CARCINOMA TGLs = 4-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 511

TRT#: 8

DOSE: 0.25

SEX: Female

DISP: Moribund

DAY ON TEST: 495

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Skin
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Thymus

OBSERVATIONS

Eye
Note: PHTHISIS BULBI IS MORE APT DX..
Note: DEGEN TGLs = 5-13

Degeneration

Marked

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Hematopoietic Cell Proliferation
Vacuolization Cytoplasmic
Hyperplasia
Hyperplasia

Chronic, Minimal
Chronic, Mild
Mild
Mild
Diffuse, Mild
Lymphoid, Mild
Diffuse, Mild

Lung
Mammary Gland
Note: HYPERPLASIA TGLs = 2-10

Cyst

Mild

Pituitary Gland Pars Distalis

Spleen

Hematopoietic Cell Proliferation

Marked

Uterus
Note: POLYP STROMAL TGLs = 3-8

Polyp Stromal

Zymbal's Gland
Note: CARCINOMA TGLs = 6-10.1

Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 512

TRT#: 8

SEX: Female

DAY ON TEST: 613

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Clitoral Gland	Bilateral	Adenoma	
Note: ADENOMA	TGLs = 2-8.1		
Heart	Atrium	Thrombosis	
Note: THROMBUS	TGLs = 8-3		
Kidney		Nephropathy	Chronic, Mild
Liver	Centrilobular	Basophilic Focus	Moderate
		Degeneration	Diffuse, Minimal
		Hematopoietic Cell Proliferation	Moderate
Note: DEGEN	TGLs = 5,6-3.1		
Lung		Hyperplasia	Lymphoid, Mild
		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 7-13		
Ovary		Cyst	
Note: CYST	TGLs = 3-8		
Skin		Squamous Cell Papilloma	
Note: SQ CL PAPILOM	TGLs = 9-14		
Spleen		Hematopoietic Cell Proliferation	Moderate
		Necrosis	Multifocal, Marked
Note: HEMA CELL PROL	TGLs = 10-3		
[Hematopoietic Cell Proliferation	TGLs = 11-3.2]		
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 512

TRT#: 8
DOSE: 0.25

SEX: Female
DISP: Moribund

DAY ON TEST: 613
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus
Note: [ADENOCARC] TGLs = 4-8.2
Zymbal's Gland

Adenocarcinoma

Adenoma
Ectasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 513

TRT#: 8

SEX: Female

DAY ON TEST: 620

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	Zymbal's Gland

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Multifocal, Mild
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Myelofibrosis	Mild
Clitoral Gland		Carcinoma	
		Ectasia	Moderate
Note: CARCINOMA TGLs = 2-8.1			
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Liver		Leukemia Mononuclear	
		Regeneration	Multifocal, Marked
Note: LEUKEMIA MONUC TGLs = 5-3.1			
Note: REGENERATION TGLs = 6-3.1			
Note: ML IS STAGE 2..			
Lung		Hyperplasia	Lymphoid, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-3			
Zymbals GI			
Note: ONE GLAND PRESENT..			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 514

TRT#: 8

SEX: Female

DAY ON TEST: 359

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland
Zymbal's Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Lung

Congestion
Hyperplasia

Moderate
Lymphoid, Mild

[Hyperplasia TGLS = 3-4,4.1]

Pharynx

Palate

Squamous Cell Carcinoma

Note: EXTENSIVE INVASION NOTED..

Note: SQUAM CEL CARC TGLs = 1-13

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 515

TRT#: 8

SEX: Female

DAY ON TEST: 646

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Clitoral Gland		Adenoma	
Heart		Cardiomyopathy	Chronic, Mild
	Atrium	Thrombosis	
Note: THROMBUS	TGLs = 7-3		
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Diffuse, Moderate
Note: LEUKEMIA MONUC	TGLs = 5-3.1		
Note: ML IS STAGE 3..			
Lung		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Angiectasis	Focal, Mild
Note: ANGIECTASIS	TGLs = 10-2		
Skin		Squamous Cell Papilloma	
Note: [SQ CL PAPILLOM]	TGLs = 9-13		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1,2-3		
Stomach	Forestomach	Ulcer	Focal, Moderate
	Glandular	Ulcer	Focal, Moderate
Zymbal's Gland		Carcinoma	
Note: [CARCINOMA]	TGLs = 8-10		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 515

TRT#: 8

SEX: Female

DAY ON TEST: 646

DOSE: 0.25

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 516

TRT#: 8

SEX: Female

DAY ON TEST: 484

DOSE: 0.25

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mandibular	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	Uterus		

MISSING

Pharynx

OBSERVATIONS

Bone	Cranium	Carcinoma	Metastatic (Zymbal'S Gland)
Brain		Carcinoma	Metastatic (Zymbal'S Gland)
Note: CARCINOMA	TGLs = 1-1		
Clitoral Gland		Adenoma	
Heart		Cardiomyopathy	Chronic, Mild
Kidney		Nephropathy	Chronic, Mild
Lung		Hyperplasia	Lymphoid, Mild
Skeletal Muscle	Cervical	Carcinoma	Metastatic (Zymbal'S Gland)
Zymbal's Gland		Carcinoma	
Note: CARCINOMA	TGLs = 2-10.1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 517	TRT#: 8 DOSE: 0.25	SEX: Female DISP: Moribund	DAY ON TEST: 486 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Zymbal's Gland	

MISSING

Mammary Gland	Thymus
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OBSERVATIONS

Liver Note: VACUOLIZ CYTO TGLs = 4-3.1		Vacuolization Cytoplasmic	Focal, Marked
Lung Tongue Note: SQ CL PAPILLOM TGLs = 5-13		Hyperplasia Squamous Cell Papilloma	Lymphoid, Mild
Uterus Note: POLYP STROMAL TGLs = 1-8 [Polyp Stromal TGLS = 2-8]	Endometrium	Cyst Polyp Stromal	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: C.I. Direct blue 15
CAS Number: 2429-74-5

Date Report Requested: 10/16/2014
Time Report Requested: 01:08:06
First Dose M/F: NA / NA
Lab: HLA

ANIMAL ID: 518

TRT#: 8
DOSE: 0.25

SEX: Female
DISP: Moribund

DAY ON TEST: 624
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Clitoral Gland	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus
Zymbal's Gland			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
		Neoplastic Nodule	
		Regeneration	Multifocal, Moderate
Note: ML IS STAGE 3..			
[Leukemia Mononuclear TGLS = 2-3.2]			
Lung		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-3			
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
Tongue		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 1-13			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 519

TRT#: 8

DOSE: 0.25

SEX: Female

DISP: Dead

DAY ON TEST: 547

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Salivary Glands
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Ovary
Skin
Thymus
Uterus

OBSERVATIONS

Clitoral Gland
Note: ECTASIA TGLs = 1-8
Kidney
Liver
Lung
Mammary Gland
Note: ADENOCARC TGLs = 6-10.1
Nose
Pituitary Gland
Note: CYST TGLs = 3-2
Tongue
Note: HYPERKERATOSIS TGLs = 4-13
Zymbal's Gland

Pars Distalis

Ectasia
Nephropathy
Basophilic Focus
Hyperplasia
Adenocarcinoma
Fungus
Cyst
Hyperkeratosis
Adenoma
Ectasia

Moderate
Chronic, Minimal
Mild
Lymphoid, Mild
Moderate
Moderate
Focal, Mild
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05169-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Direct blue 15

CAS Number: 2429-74-5

Date Report Requested: 10/16/2014

Time Report Requested: 01:08:06

First Dose M/F: NA / NA

Lab: HLA

ANIMAL ID: 520

TRT#: 8

DOSE: 0.25

SEX: Female

DISP: Moribund

DAY ON TEST: 592

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Skin
Thymus
Zymbal's Gland

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

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Clitoral Gland
Note: ADENOMA TGLs = 2-8

Bilateral

Adenoma

Kidney
Liver
Note: [HEMA CELL PROL] TGLs = 7-3.1

Nephropathy
Basophilic Focus
Hematopoietic Cell Proliferation

Chronic, Mild
Mild
Minimal

Lung
Mammary Gland
Note: FIBROADENOMA TGLs = 1,3-10.1,13

Hyperplasia
Infiltration Cellular
Fibroadenoma
Galactocele

Lymphoid, Mild
Histiocyte, Minimal
Multiple

Uterus
Note: SARC STROMAL TGLs = 4-8.1

Cervix

Sarcoma Stromal
Sarcoma Stromal

Metastatic (Uterus)

Vagina
Note: SARC STROMAL TGLs = 5,6-8.2,8.3

Sarcoma Stromal

Metastatic (Uterus), Multiple (Uterus)

PRIMARY CAUSE OF DEATH

-

** END OF REPORT **

* PROTOCOL REQUIRED TISSUE