Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Test Type: 14-DAY alpha/be
Route: GAVAGE CAS N

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

NTP Study Number: C99037

**Lock Date:** 01/24/2002

Cage Range: ALL

Date Range: ALL

**Reasons For Removal:** ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Both

**TDMSE Version:** 3.0.2.3\_002

PWG Approval Date: NONE

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TEST	ST	
VEHICLE CONTROL  ANIMAL ID	ID 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	* TOTALS
ALIMENTARY SYSTEM		
Esophagus	+ + + + +	5
Intestine Large, Cecum	+ + + + +	5
Intestine Large, Colon	+ + + +	5
Intestine Large, Rectum	+ + + + +	5
Intestine Small, Duodenum	+ + + + +	5
Intestine Small, Ileum	+ + + + +	5
Intestine Small, Jejunum	+ + + + +	5
Liver	+ + + + +	5
Pancreas	+ + + + +	5
Salivary Glands	+ + + + +	5
Stomach, Forestomach	+ + + + +	5
Stomach, Glandular	+ + + + +	5
CARDIOVASCULAR SYSTEM		
Blood Vessel	+ + + + +	5
Heart	+ + + + +	5

## **ENDOCRINE SYSTEM**

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

DAY ON T		
VEHICLE CONTROL  ANIMA	0 0 0 0 0	* TOTALS
Adrenal Cortex	+ + + +	5
Adrenal Medulla	+ + + +	5
Islets, Pancreatic	+ + + + +	5
Parathyroid Gland	+ + + + +	5
Pituitary Gland	+ + + + +	5
Thyroid Gland	+ + + + +	5
GENERAL BODY SYSTEM		
NONE		
GENITAL SYSTEM		
Epididymis	+ + + + +	5
Preputial Gland	+ + + + +	5
Prostate	+ + + + +	5
Seminal Vesicle	+ + M + +	4
Testes	+ + + + +	5
HEMATOPOIETIC SYSTEM		
Bone Marrow	+ + + +	5
Lymph Node, Mandibular	M M M M	0

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

DAY ON TEST FISCHER 344 RATS MALE		
VEHICLE CONTROL  ANIMAL ID	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	* TOTALS
Lymph Node, Mesenteric	+ + + +	5
Spleen	+ + + + +	5
Thymus	+ + + + +	5
INTEGUMENTARY SYSTEM		
Mammary Gland	M M + + +	3
Skin	+ + + + +	5
MUSCULOSKELETAL SYSTEM		
Bone	+ + + +	5
Skeletal Muscle	+ + + +	5
NERVOUS SYSTEM		
Brain, NOS	+ + + + +	5
Peripheral Nerve, Sciatic	+ + + + +	5
Spinal Cord, Cervical	+ + + + +	5
Spinal Cord, Lumbar	+ + + + +	5
RESPIRATORY SYSTEM		
Larynx	+ +     +	3
Lung	+ + + + +	5

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation BLANK .. Not examined microscopically

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

FISCHER 344 RATS MALE	AY ON TEST	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	
VEHICLE CONTROL	ANIMAL ID	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	* TOTALS
Nose		+	+	+	+	+	5
Trachea		+	+	+	+	+	5
SPECIAL SENSES SYSTE	М	-	-	-	-	-	
Eye		+	+	+	+	+	5
Harderian Gland		+	+	+	+	+	5
URINARY SYSTEM							
Kidney		+	+	+	+	+	5
Urinary Bladder		+	+	+	+	+	5
SYSTEMIC LESIONS							
Multiple Organ		+	+	+	+	+	5

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TEST FISCHER 344 RATS MALE	
1.0 MG/KG	
ANIMAL ID	
	* TOTAL C
	* TOTALS
ALIMENTARY SYSTEM	
NONE	
CARDIOVASCULAR SYSTEM	
NONE	
ENDOCRINE SYSTEM	
NONE	
GENERAL BODY SYSTEM	
NONE	
GENITAL SYSTEM	
NONE	
HEMATOPOIETIC SYSTEM	
NONE	
INTEGUMENTARY SYSTEM	
NONE	
MUSCULOSKELETAL SYSTEM	
NONE	
NERVOUS SYSTEM	

M .. Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

FISCHER 344 RATS	DAY ON TEST		
1.0 MG/KG			
	ANIMAL ID		
			* TOTALS
NONE			
RESPIRATORY SYS	STEM		
NONE			
SPECIAL SENSES	SYSTEM		
NONE			
URINARY SYSTEM			
NONE			
SYSTEMIC LESION	s		
Multiple Organ			0

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation BLANK .. Not examined microscopically

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TEST FISCHER 344 RATS MALE	
3.0 MG/KG	
ANIMAL ID	
	* TOTALS
ALIMENTARY SYSTEM	
NONE	
CARDIOVASCULAR SYSTEM	
NONE	
ENDOCRINE SYSTEM	
NONE	
GENERAL BODY SYSTEM	
NONE	
GENITAL SYSTEM	
NONE	
HEMATOPOIETIC SYSTEM	
NONE	
INTEGUMENTARY SYSTEM	
NONE	
MUSCULOSKELETAL SYSTEM	
NONE	
NERVOUS SYSTEM	

M .. Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

FISCHER 344 RATS MALE	AY ON TEST					
3.0 MG/KG	ANIMAL ID					
			* TOTALS			
NONE						
RESPIRATORY SYSTEM						
NONE						
SPECIAL SENSES SYSTEM	M					
NONE						
URINARY SYSTEM						
NONE						
SYSTEMIC LESIONS						
Multiple Organ			0			

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TEST	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	
10.0 MG/KG ANIMAL IE	0 0 0 0 3 1	0 0 0 3 2	0 0 0 3 3	0 0 0 3 4	0 0 0 3 5	* TOTALS
ALIMENTARY SYSTEM					1	101/120
Liver	+					1
CARDIOVASCULAR SYSTEM						
NONE						
ENDOCRINE SYSTEM						
NONE						
GENERAL BODY SYSTEM						
NONE						
GENITAL SYSTEM	•		•			
NONE						
HEMATOPOIETIC SYSTEM						
NONE						
INTEGUMENTARY SYSTEM						
NONE						
MUSCULOSKELETAL SYSTEM						

- \* .. Total animals with tissue examined microscopically; Total animals with tumor
- + .. Tissue examined microscopically
- X .. Lesion present

NONE

**NERVOUS SYSTEM** 

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

1

Lab: MBA

RESPIRATORY SYSTEM	<u>.</u>		-			
NONE						
10.0 MG/KG ANIMAL ID	0 0 0 3 1	0 0 0 3 2	0 0 0 3 3	0 0 0 3 4	0 0 0 3 5	* TOTALS
DAY ON TEST FISCHER 344 RATS MALE	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	

NONE

## **SPECIAL SENSES SYSTEM**

NONE

## **URINARY SYSTEM**

NONE

## **SYSTEMIC LESIONS**

Multiple Organ

M .. Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

FISCHER 344 RATS MALE 30.0 MG/KG	Y ON TEST  ANIMAL ID		
		*	TOTALS
ALIMENTARY SYSTEM			
NONE			
CARDIOVASCULAR SYST	:M		
NONE			
ENDOCRINE SYSTEM			
NONE			
GENERAL BODY SYSTEM			
NONE			
GENITAL SYSTEM			
NONE			
HEMATOPOIETIC SYSTEM			
NONE			
INTEGUMENTARY SYSTE	I		
NONE			
MUSCULOSKELETAL SYS	ГЕМ		
NONE			
NERVOUS SYSTEM			

M .. Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

FISCHER 344 RATS MAL	DAY ON TEST  ALE							
30.0 MG/KG	ANIMAL ID							
					* TOTALS			
NONE								
RESPIRATORY SYSTE	EM .							
NONE								
SPECIAL SENSES SYS	STEM							
NONE								
URINARY SYSTEM								
NONE								
SYSTEMIC LESIONS								
Multiple Organ					0			

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TES	ST 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1	
100 MG/KG ANIMAL	ID 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	* TOTALS
ALIMENTARY SYSTEM		
Esophagus	+ + + + +	5
Intestine Large, Cecum	+ + + + +	5
Intestine Large, Colon	+ + + + +	5
Intestine Large, Rectum	+ + + + +	5
Intestine Small, Duodenum	+ + + + +	5
Intestine Small, Ileum	+ + + + +	5
Intestine Small, Jejunum	+ + + + +	5
Liver	+ + + + +	5
Pancreas	+ + + + +	5
Salivary Glands	+ + + + +	5
Stomach, Forestomach	+ + + + +	5
Stomach, Glandular	+ + + + +	5
CARDIOVASCULAR SYSTEM		
Blood Vessel	+ + + + +	5
Heart	+ + + + +	5

## **ENDOCRINE SYSTEM**

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

DAY C	ON TEST 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 0 7 7 7 7	
100 MG/KG AN	IIMAL ID  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	* TOTALS
Adrenal Cortex	+ + + +	5
Adrenal Medulla	+ + + + +	5
Islets, Pancreatic	+ + + + +	5
Parathyroid Gland	M M + + +	3
Pituitary Gland	+ + + + +	5
Thyroid Gland	+ + + + +	5
GENERAL BODY SYSTEM		
NONE		
GENITAL SYSTEM		
Epididymis	+ + + + +	5
Preputial Gland	+ + + + +	5
Prostate	+ + + + +	5
Seminal Vesicle	+ M + + +	4
Testes	+ + + + +	5
HEMATOPOIETIC SYSTEM		
Bone Marrow	+ + + + +	5
Lymph Node, Mandibular	M M M M	0

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation BLANK .. Not examined microscopically

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TEST	0	0	0	0	0	
FISCHER 344 RATS MALE	1 0	7	1 7	7	7	
100 MG/KG ANIMAL ID	0 0 0 5 4	0 0 0 5 1	0 0 0 5 2	0 0 0 5 3	0 0 0 5 5	* TOTALS
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
INTEGUMENTARY SYSTEM						
Mammary Gland	+	+	М	М	M	2
Skin	+	+	+	+	+	5
MUSCULOSKELETAL SYSTEM						
Bone	+	+	+	+	+	5
Skeletal Muscle	+	+	+	+	+	5
NERVOUS SYSTEM						
Brain, NOS	+	+	+	+	+	5
Peripheral Nerve, Sciatic	+	+	+	+	+	5
Spinal Cord, Cervical	+	+	+	+	+	5
Spinal Cord, Lumbar	+	+	+	+	+	5
RESPIRATORY SYSTEM						
Larynx	1	+	+	+	I	3
Lung	+	+	+	+	+	5

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TEST FISCHER 344 RATS MALE	0 0 1 0	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	
100 MG/KG ANIMAL ID	0 0 0 5 4	0 0 0 5 1	0 0 0 5 2	0 0 0 5 3	0 0 0 5 5	* TOTALS
Nose	Α	+	+	+	+	4
Trachea	+	+	+	+	+	5
SPECIAL SENSES SYSTEM						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
URINARY SYSTEM						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5
SYSTEMIC LESIONS						
Multiple Organ	+	+	+	+	+	5

\*\*\* END OF MALE DATA \*\*\*

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation

**Test Type**: 14-DAY **Route**: GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TEST	TT	
VEHICLE CONTROL  ANIMAL ID	D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	* TOTALS
ALIMENTARY SYSTEM		
Esophagus	+ + + + +	5
Intestine Large, Cecum	+ + + + +	5
Intestine Large, Colon	+ + + + +	5
Intestine Large, Rectum	+ + + + +	5
Intestine Small, Duodenum	+ + + + +	5
Intestine Small, Ileum	+ + + + +	5
Intestine Small, Jejunum	+ + + + +	5
Liver	+ + + + +	5
Pancreas	+ + + + +	5
Salivary Glands	+ + + + +	5
Stomach, Forestomach	+ + + + +	5
Stomach, Glandular	+ + + + +	5
CARDIOVASCULAR SYSTEM		
Blood Vessel	+ + + + +	5
Heart	+ + + + +	5

# **ENDOCRINE SYSTEM**

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

DAY ON TEST	0	0	0	0	0	
FISCHER 344 RATS FEMALE	1 7	1 7	1 7	0 1 7	0 1 7	
VEHICLE CONTROL  ANIMAL ID	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 1	* TOTALS
Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	М	+	М	3
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5
GENERAL BODY SYSTEM						
NONE						
GENITAL SYSTEM						
Clitoral Gland	+	+	+	+	+	5
Ovary	+	+	+	+	+	5
Uterus	+	+	+	+	+	5
HEMATOPOIETIC SYSTEM						
Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	М	М	М	М	М	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

		1				
DAY ON TEST	0	0	0	0	0	
FISCHER 344 RATS FEMALE	1 7	1 7	1 7	1 7	1 7	
VEHICLE CONTROL  ANIMAL ID	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 1 0	* TOTALS
Thymus	+	+	+	+	+	5
INTEGUMENTARY SYSTEM						
Mammary Gland	+	+	+	+	+	5
Skin	+	+	+	+	+	5
MUSCULOSKELETAL SYSTEM						
Bone	+	+	+	+	+	5
Skeletal Muscle	+	+	+	+	+	5
NERVOUS SYSTEM						
Brain, NOS	+	+	+	+	+	5
Peripheral Nerve, Sciatic	+	+	+	+	+	5
Spinal Cord, Cervical	+	+	+	+	+	5
Spinal Cord, Lumbar	+	+	+	+	+	5
RESPIRATORY SYSTEM						
Larynx	1	I	I	I	+	1
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation BLANK .. Not examined microscopically

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

DAY ON TEST	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	
VEHICLE CONTROL  ANIMAL ID	0 0 0 0 6	0 0 0 0 7	0	0 0 0 0 9	0 0 0 1 0	* TOTALS
SPECIAL SENSES SYSTEM					-	
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
JRINARY SYSTEM						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5
SYSTEMIC LESIONS						
Multiple Organ	+	+		+	_	5

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TEST FISCHER 344 RATS FEMALE	Γ	
1.0 MG/KG		
ANIMAL IE		
	* TOTA	u e
	* TOTA	<u>(LS</u>
ALIMENTARY SYSTEM		
NONE		
CARDIOVASCULAR SYSTEM		
NONE		
ENDOCRINE SYSTEM		
NONE		
GENERAL BODY SYSTEM		
NONE		
GENITAL SYSTEM		
NONE		
HEMATOPOIETIC SYSTEM		
NONE		
INTEGUMENTARY SYSTEM		
NONE		
MUSCULOSKELETAL SYSTEM		
NONE		
NERVOUS SYSTEM		

M .. Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

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alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

FISCHER 344 RATS FI	DAY ON TEST		
1.0 MG/KG			
	ANIMAL ID		
			* TOTALS
NONE			
RESPIRATORY SYSTE	EM		
NONE			
SPECIAL SENSES SYS	STEM		
NONE			
URINARY SYSTEM			
NONE			
SYSTEMIC LESIONS			
Multiple Organ			0

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation BLANK .. Not examined microscopically

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TEST FISCHER 344 RATS FEMALE	
3.0 MG/KG	
ANIMAL ID	
	* TOTALS
ALIMENTARY SYSTEM	TOTALO
NONE	
CARDIOVASCULAR SYSTEM	
NONE	
ENDOCRINE SYSTEM	
NONE	
GENERAL BODY SYSTEM	
NONE	
GENITAL SYSTEM	
NONE	
HEMATOPOIETIC SYSTEM	
NONE	
INTEGUMENTARY SYSTEM	
NONE	
MUSCULOSKELETAL SYSTEM	
NONE	
NERVOUS SYSTEM	

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

FISCHER 344 RATS	DAY ON TEST		
3.0 MG/KG	ANIMAL ID		
	ANIMALID		
			* TOTALS
NONE			
RESPIRATORY SYS	STEM		
NONE			
SPECIAL SENSES	SYSTEM		
NONE			
URINARY SYSTEM			
NONE			
SYSTEMIC LESIONS	S		
Multiple Organ			0

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TEST FISCHER 344 RATS FEMALE	
10.0 MG/KG	
ANIMAL ID	
	* TOTALS
ALIMENTARY SYSTEM	
NONE	
CARDIOVASCULAR SYSTEM	
NONE	
ENDOCRINE SYSTEM	
NONE	
GENERAL BODY SYSTEM	
NONE	
GENITAL SYSTEM	
NONE	
HEMATOPOIETIC SYSTEM	
NONE	
INTEGUMENTARY SYSTEM	
NONE	
MUSCULOSKELETAL SYSTEM	
NONE	
NERVOUS SYSTEM	

M .. Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

DAY ON TEST	
FISCHER 344 RATS FEMALE	_
10.0 MG/KG	
ANIMAL ID	
	 * TOTALS
NONE	
RESPIRATORY SYSTEM	
NONE	
SPECIAL SENSES SYSTEM	
NONE	
URINARY SYSTEM	
NONE	
SYSTEMIC LESIONS	
Multiple Organ	0

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TEST FISCHER 344 RATS FEMALE	
30.0 MG/KG	
ANIMAL ID	
	* TOTALS
ALIMENTARY SYSTEM	
NONE	
CARDIOVASCULAR SYSTEM	
NONE	
ENDOCRINE SYSTEM	
NONE	
GENERAL BODY SYSTEM	
NONE	
GENITAL SYSTEM	
NONE	
HEMATOPOIETIC SYSTEM	
NONE	
INTEGUMENTARY SYSTEM	
NONE	
MUSCULOSKELETAL SYSTEM	
NONE	
NERVOUS SYSTEM	

M .. Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

**Test Type:** 14-DAY **Route:** GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

DAY ON TEST	
FISCHER 344 RATS FEMALE	
30.0 MG/KG	
ANIMAL ID	
	* TOTALS
NONE	
RESPIRATORY SYSTEM	
NONE	
SPECIAL SENSES SYSTEM	
NONE	
URINARY SYSTEM	
NONE	
SYSTEMIC LESIONS	
Multiple Organ	0

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TE	TEST 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1	
100 MG/KG ANIMAI	AL ID 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	* TOTALS
ALIMENTARY SYSTEM		
Esophagus	+ + + + +	5
Intestine Large, Cecum	+ + + + +	5
Intestine Large, Colon	+ + + + +	5
Intestine Large, Rectum	+ + + + +	5
Intestine Small, Duodenum	+ + + +	5
Intestine Small, Ileum	+ + + + +	5
Intestine Small, Jejunum	+ + + + +	5
Liver	+ + + + +	5
Pancreas	+ + + + +	5
Salivary Glands	+ + + + +	5
Stomach, Forestomach	+ + + + +	5
Stomach, Glandular	+ + + +	5
CARDIOVASCULAR SYSTEM		
Blood Vessel	+ + + + +	5
Heart	+ + + + +	5

# **ENDOCRINE SYSTEM**

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

Test Type: 14-DAY Route: GAVAGE

Species/Strain: RATS/F 344/N

## P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture **CAS Number:** 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

DAY ON TEST	- 0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	
100 MG/KG ANIMAL IE	0	0 0 0 5 7	0 0 0 5 8	0 0 0 5 9	* TOTALS
Adrenal Cortex	+	+	+	+	5
Adrenal Medulla	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	5
Parathyroid Gland	+	М	+	+	4
Pituitary Gland	+	+	+	+	5
Thyroid Gland	+	+	+	+	5
GENERAL BODY SYSTEM					
NONE					
GENITAL SYSTEM					
Clitoral Gland	+	+	+	+	5
Ovary	+	+	+	+	5
Uterus	+	+	+	+	5
HEMATOPOIETIC SYSTEM					
Bone Marrow	+	+	+	+	5
Lymph Node, Mandibular	М	М	М	М	0
Lymph Node, Mesenteric	+	+	+	+	5
Spleen	+	+	+	+	5

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

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A .. Autolysis precludes evaluation

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

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alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

DAY ON THE PROPERTY OF THE PRO	TEST	
100 MG/KG ANIMAL ID	MAL ID 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	* TOTALS
Thymus	+ + + +	5
INTEGUMENTARY SYSTEM		
Mammary Gland	+ + + + +	5
Skin	+ + + + +	5
MUSCULOSKELETAL SYSTEM		
Bone	+ + + + +	5
Skeletal Muscle	+ + + + +	5
NERVOUS SYSTEM		
Brain, NOS	+ + + + +	5
Peripheral Nerve, Sciatic	+ + + + +	5
Spinal Cord, Cervical	+ + + + +	5
Spinal Cord, Lumbar	+ + + + +	5
RESPIRATORY SYSTEM		
Larynx	+ + + +	4
Lung	+ + + + +	5
Nose	+ + + + +	5
Trachea	+ + + +	5

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

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Test Type: 14-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

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alpha/beta Thujone mixture CAS Number: 76231-76-0

Date Report Requested: 09/19/2016 Time Report Requested: 14:00:39 First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TEST FISCHER 344 RATS FEMALE	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 7	
100 MG/KG ANIMAL ID	0 0 0 5 6	0 0 0 5 7	0 0 0 5 8	0 0 0 5 9	0 0 0 6 0	* TOTALS
SPECIAL SENSES SYSTEM					-	
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
URINARY SYSTEM						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5
SYSTEMIC LESIONS						
Multiple Organ	+	+	+	+	+	5

\*\*\* END OF REPORT \*\*\*

<sup>\* ..</sup> Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation