

**Experiment Number:** 99037 - 01  
**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

**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

Note: Animals arranged according to days on test.

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Route: GAVAGE

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First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

<b>FISCHER 344 RATS MALE</b>	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		7	7	7	7	7	
<b>VEHICLE CONTROL</b>	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		1	2	3	4	5	
							<b>* TOTALS</b>

**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**

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

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

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alpha/beta Thujone mixture

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First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
FISCHER 344 RATS MALE	1	1	1	1	1	
	7	7	7	7	7	
VEHICLE CONTROL	0	0	0	0	0	
	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	1	2	3	4	5	
						<b>* TOTALS</b>
Adrenal Cortex	+	+	+	+	+	<b>5</b>
Adrenal Medulla	+	+	+	+	+	<b>5</b>
Islets, Pancreatic	+	+	+	+	+	<b>5</b>
Parathyroid Gland	+	+	+	+	+	<b>5</b>
Pituitary Gland	+	+	+	+	+	<b>5</b>
Thyroid Gland	+	+	+	+	+	<b>5</b>
<b>GENERAL BODY SYSTEM</b>						
NONE						
<b>GENITAL SYSTEM</b>						
Epididymis	+	+	+	+	+	<b>5</b>
Preputial Gland	+	+	+	+	+	<b>5</b>
Prostate	+	+	+	+	+	<b>5</b>
Seminal Vesicle	+	+	M	+	+	<b>4</b>
Testes	+	+	+	+	+	<b>5</b>
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	+	+	+	+	+	<b>5</b>
Lymph Node, Mandibular	M	M	M	M	M	<b>0</b>

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Lab: MBA

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

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First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

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

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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

**\* 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**

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+ .. Tissue examined microscopically  
X .. Lesion present  
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Lab: MBA

DAY ON TEST

**FISCHER 344 RATS MALE**

**1.0 MG/KG**

ANIMAL ID

**\* TOTALS**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

**0**

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

M .. Missing tissue  
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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**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
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Lab: MBA

DAY ON TEST

**FISCHER 344 RATS MALE**

**3.0 MG/KG**

ANIMAL ID

**\* TOTALS**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

**0**

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

M .. Missing tissue  
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First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

<b>FISCHER 344 RATS MALE</b>	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		7	7	7	7	7	
<b>10.0 MG/KG</b>	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		3	3	3	3	3	
		1	2	3	4	5	
<b>* TOTALS</b>							

**ALIMENTARY SYSTEM**

Liver + 1

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

<b>FISCHER 344 RATS MALE</b>	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		7	7	7	7	7	
<b>10.0 MG/KG</b>	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		3	3	3	3	3	
		1	2	3	4	5	
<b>* TOTALS</b>							

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

+

1

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

M .. Missing tissue  
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Species/Strain: RATS/F 344/N

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First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TEST

**FISCHER 344 RATS MALE**

**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**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
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M .. Missing tissue  
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Lab: MBA

DAY ON TEST

**FISCHER 344 RATS MALE**

**30.0 MG/KG**

ANIMAL ID

**\* TOTALS**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

**0**

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

<b>FISCHER 344 RATS MALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		0	7	7	7	7
	<b>100 MG/KG</b>					
ANIMAL ID		0	0	0	0	0
		0	0	0	0	0
		0	0	0	0	0
		5	5	5	5	5
		4	1	2	3	5
<b>* TOTALS</b>						

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	<b>5</b>
Intestine Large, Cecum	+	+	+	+	+	<b>5</b>
Intestine Large, Colon	+	+	+	+	+	<b>5</b>
Intestine Large, Rectum	+	+	+	+	+	<b>5</b>
Intestine Small, Duodenum	+	+	+	+	+	<b>5</b>
Intestine Small, Ileum	+	+	+	+	+	<b>5</b>
Intestine Small, Jejunum	+	+	+	+	+	<b>5</b>
Liver	+	+	+	+	+	<b>5</b>
Pancreas	+	+	+	+	+	<b>5</b>
Salivary Glands	+	+	+	+	+	<b>5</b>
Stomach, Forestomach	+	+	+	+	+	<b>5</b>
Stomach, Glandular	+	+	+	+	+	<b>5</b>

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	<b>5</b>
Heart	+	+	+	+	+	<b>5</b>

**ENDOCRINE SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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Lab: MBA

FISCHER 344 RATS MALE 100 MG/KG	DAY ON TEST					ANIMAL ID		
	0	0	0	0	0			
	0	0	0	0	0			
	1	1	1	1	1			
	0	7	7	7	7			
	0	0	0	0	0			
	0	0	0	0	0			
	0	0	0	0	0			
	5	5	5	5	5			
	4	1	2	3	5			
								<b>* TOTALS</b>

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	M			0

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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M .. Missing tissue  
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Lab: MBA

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

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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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 100 MG/KG	DAY ON TEST	0	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		0	7	7	7	7	
		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		5	5	5	5	5	
		4	1	2	3	5	
							<b>* TOTALS</b>
Nose	A	+	+	+	+	+	<b>4</b>
Trachea		+	+	+	+	+	<b>5</b>
<b>SPECIAL SENSES SYSTEM</b>							
Eye		+	+	+	+	+	<b>5</b>
Harderian Gland		+	+	+	+	+	<b>5</b>
<b>URINARY SYSTEM</b>							
Kidney		+	+	+	+	+	<b>5</b>
Urinary Bladder		+	+	+	+	+	<b>5</b>
<b>SYSTEMIC LESIONS</b>							
Multiple Organ		+	+	+	+	+	<b>5</b>

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

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

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 99037 - 01

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
<b>FISCHER 344 RATS FEMALE</b>		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
	<hr/>					
<b>VEHICLE CONTROL</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		0	0	0	0	0
		0	0	0	0	1
		6	7	8	9	0
	<b>* TOTALS</b>					

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	<b>5</b>
Intestine Large, Cecum	+	+	+	+	+	<b>5</b>
Intestine Large, Colon	+	+	+	+	+	<b>5</b>
Intestine Large, Rectum	+	+	+	+	+	<b>5</b>
Intestine Small, Duodenum	+	+	+	+	+	<b>5</b>
Intestine Small, Ileum	+	+	+	+	+	<b>5</b>
Intestine Small, Jejunum	+	+	+	+	+	<b>5</b>
Liver	+	+	+	+	+	<b>5</b>
Pancreas	+	+	+	+	+	<b>5</b>
Salivary Glands	+	+	+	+	+	<b>5</b>
Stomach, Forestomach	+	+	+	+	+	<b>5</b>
Stomach, Glandular	+	+	+	+	+	<b>5</b>

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	<b>5</b>
Heart	+	+	+	+	+	<b>5</b>

**ENDOCRINE SYSTEM**

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

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 99037 - 01

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	
<b>FISCHER 344 RATS FEMALE</b>		0	0	0	0	0	
		1	1	1	1	1	
		7	7	7	7	7	
ANIMAL ID		0	0	0	0	0	
<b>VEHICLE CONTROL</b>		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	1	
		6	7	8	9	0	
							<b>* TOTALS</b>

Adrenal Cortex	+	+	+	+	+		<b>5</b>
Adrenal Medulla	+	+	+	+	+		<b>5</b>
Islets, Pancreatic	+	+	+	+	+		<b>5</b>
Parathyroid Gland	+	+	M	+	M		<b>3</b>
Pituitary Gland	+	+	+	+	+		<b>5</b>
Thyroid Gland	+	+	+	+	+		<b>5</b>

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+		<b>5</b>
Ovary	+	+	+	+	+		<b>5</b>
Uterus	+	+	+	+	+		<b>5</b>

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+		<b>5</b>
Lymph Node, Mandibular	M	M	M	M	M		<b>0</b>
Lymph Node, Mesenteric	+	+	+	+	+		<b>5</b>
Spleen	+	+	+	+	+		<b>5</b>

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

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 99037 - 01

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

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

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

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 99037 - 01

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	
<b>FISCHER 344 RATS FEMALE</b>		0	0	0	0	0	
		1	1	1	1	1	
		7	7	7	7	7	
<b>VEHICLE CONTROL</b>	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	1	
		6	7	8	9	0	
							<b>* TOTALS</b>

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+		<b>5</b>
Harderian Gland	+	+	+	+	+		<b>5</b>

**URINARY SYSTEM**

Kidney	+	+	+	+	+		<b>5</b>
Urinary Bladder	+	+	+	+	+		<b>5</b>

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+		<b>5</b>
----------------	---	---	---	---	---	--	----------

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

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 99037 - 01

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**

**1.0 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**

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

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 99037 - 01

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**

**1.0 MG/KG**

ANIMAL ID

**\* TOTALS**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

**0**

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

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 99037 - 01

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**

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**

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

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically



Experiment Number: 99037 - 01

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**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

**0**

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

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 99037 - 01

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**

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

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 99037 - 01

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**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

**0**

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

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 99037 - 01

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**

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

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 99037 - 01

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**

NONE

**RESPIRATORY SYSTEM**

NONE

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

**0**

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

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 99037 - 01

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

<b>FISCHER 344 RATS FEMALE</b>	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		7	7	7	7	7	
	<b>100 MG/KG</b>						
ANIMAL ID		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		5	5	5	5	6	
		6	7	8	9	0	
							<b>* TOTALS</b>

**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**

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

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 99037 - 01

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	
	0	0	0	0	0	
<b>FISCHER 344 RATS FEMALE</b>	1	1	1	1	1	
	7	7	7	7	7	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	6	
	6	7	8	9	0	
						<b>* TOTALS</b>

Adrenal Cortex	+	+	+	+	+	<b>5</b>
Adrenal Medulla	+	+	+	+	+	<b>5</b>
Islets, Pancreatic	+	+	+	+	+	<b>5</b>
Parathyroid Gland	+	M	+	+	+	<b>4</b>
Pituitary Gland	+	+	+	+	+	<b>5</b>
Thyroid Gland	+	+	+	+	+	<b>5</b>

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	<b>5</b>
Ovary	+	+	+	+	+	<b>5</b>
Uterus	+	+	+	+	+	<b>5</b>

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	<b>5</b>
Lymph Node, Mandibular	M	M	M	M	M	<b>0</b>
Lymph Node, Mesenteric	+	+	+	+	+	<b>5</b>
Spleen	+	+	+	+	+	<b>5</b>

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

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 99037 - 01

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	
	0	0	0	0	0	
<b>FISCHER 344 RATS FEMALE</b>	1	1	1	1	1	
	7	7	7	7	7	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	6	
	6	7	8	9	0	
						<b>* TOTALS</b>
Thymus	+	+	+	+	+	<b>5</b>
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	+	+	+	+	+	<b>5</b>
Skin	+	+	+	+	+	<b>5</b>
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	+	+	+	+	+	<b>5</b>
Skeletal Muscle	+	+	+	+	+	<b>5</b>
<b>NERVOUS SYSTEM</b>						
Brain, NOS	+	+	+	+	+	<b>5</b>
Peripheral Nerve, Sciatic	+	+	+	+	+	<b>5</b>
Spinal Cord, Cervical	+	+	+	+	+	<b>5</b>
Spinal Cord, Lumbar	+	+	+	+	+	<b>5</b>
<b>RESPIRATORY SYSTEM</b>						
Larynx	+	+	+	+	I	<b>4</b>
Lung	+	+	+	+	+	<b>5</b>
Nose	+	+	+	+	+	<b>5</b>
Trachea	+	+	+	+	+	<b>5</b>

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

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 99037 - 01

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

<b>FISCHER 344 RATS FEMALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
<b>100 MG/KG</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		0	0	0	0	0
		5	5	5	5	6
	6	7	8	9	0	
<b>* TOTALS</b>						

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	<b>5</b>
Harderian Gland	+	+	+	+	+	<b>5</b>

**URINARY SYSTEM**

Kidney	+	+	+	+	+	<b>5</b>
Urinary Bladder	+	+	+	+	+	<b>5</b>

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	<b>5</b>
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\*\*\* END OF REPORT \*\*\*

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

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically