

**Experiment Number:** 99021-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** alpha-Thujone  
**CAS Number:** 546-80-5

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:54:28  
**First Dose M/F:** NA / NA  
**Lab:** MBA

<b>C Number:</b>	C99021
<b>Lock Date:</b>	01/24/2002
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

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Date Report Requested: 10/15/2014

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First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
VEHICLE CONTROL

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	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	*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	
Infiltration Cellular, Lymphocyte, Focal				1			1 1.0
Salivary Glands	+	+	+	+	+	5	
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	

Cardiovascular System

Blood Vessel	+	+	+	+	+	5	
Heart	+	+	+	+	+	5	

Endocrine System

Adrenal Cortex	+	+	+	+	+	5	
Adrenal Medulla	+	+	+	+	+	5	
Islets, Pancreatic	+	+	+	+	+	5	

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

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2) Mild 4) Marked

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Lab: MBA

F 344/N Rat Male  
VEHICLE CONTROL

	DAY ON TEST					
	0	0	0	0	0	
	0	0	0	0	0	
	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>
Parathyroid Gland	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5
<b>General Body System</b>						
NONE						
<b>Genital System</b>						
Epididymis	+	+	+	+	+	5
Preputial Gland	+	+	+	+	+	5
Prostate	+	+	+	+	+	5
Seminal Vesicle	+	+	+	+	+	5
Testes	+	+	+	+	+	5
<b>Hematopoietic System</b>						
Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	+	+	M	+	M	3
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	+	+	+	+	+	5
Skin	+	+	+	+	+	5

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F 344/N Rat Male  
VEHICLE CONTROL

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	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

\*TOTALS

**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	+	+	I	+	+	4
Lung	+	+	+	+	+	5
Perivascular, Infiltration Cellular, Lymphocyte, Focal	1	1				2 1.0
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5

**Special Senses System**

Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5

**Urinary System**

Kidney	+	+	+	+	+	5
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VEHICLE CONTROL

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	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	*TOTALS
Urinary Bladder	+	+	+	+	+	5

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First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
1.0 MG/KG

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	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	
	1	1	1	1	1	
	1	2	3	4	5	*TOTALS

Alimentary System

Liver		+		1	
Hepatodiaphragmatic Nodule			2		1 2.0

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

Bone		+		1	
------	--	---	--	---	--

Nervous System

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Lab: MBA

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1.0 MG/KG

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	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
	1	1	1	1	1
	1	2	3	4	5
	<b>*TOTALS</b>				

Brain, NOS	+	1	
Cerebrum, Developmental Malformation	3	1	3.0
Cerebrum, Gliosis, Focal	2	1	2.0

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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Lab: MBA

F 344/N Rat Male  
3.0 MG/KG

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	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	
	2	2	2	2	2	
	1	2	3	4	5	*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Lymph Node	+	1		
Mediastinal, Congestion, Focal	1		1	1.0
Mediastinal, Hyperplasia	3		1	3.0

Integumentary System

NONE

Musculoskeletal System

NONE

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 Lab: MBA

**F 344/N Rat Male**  
**3.0 MG/KG**

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	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	
	2	2	2	2	2	
	1	2	3	4	5	<b>*TOTALS</b>

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

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

DAY ON TEST

**F 344/N Rat Male**  
**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**

NONE

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X ..Lesion present

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

DAY ON TEST

**F 344/N Rat Male**  
**10.0 MG/KG**

ANIMAL ID

\*TOTALS

---

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

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

DAY ON TEST

**F 344/N Rat 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**

NONE

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X ..Lesion present

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Species/Strain: Rat/F 344/N

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First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

**F 344/N Rat Male**

**30.0 MG/KG**

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

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First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
100 MG/KG

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	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	5
	1	2	3	4	5

\*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
Infiltration Cellular, Lymphocyte, Focal			1			1 1.0
Salivary Glands	+	+	+	+	+	5
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5

Cardiovascular System

Blood Vessel	+	+	+	+	+	5
Heart	+	+	+	+	+	5

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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100 MG/KG

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	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	5	
	1	2	3	4	5	*TOTALS

Parathyroid Gland	+	+	+	M	+	4
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5
<b>General Body System</b>						
NONE						
<b>Genital System</b>						
Epididymis	+	+	+	+	+	5
Preputial Gland	+	+	+	+	+	5
Prostate	+	+	+	+	+	5
Seminal Vesicle	+	+	+	+	+	5
Testes	+	+	+	+	+	5
<b>Hematopoietic System</b>						
Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	+	+	M	M	+	3
Skin	+	+	+	+	+	5

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Lab: MBA

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100 MG/KG

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	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	5	
	1	2	3	4	5	*TOTALS

**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	+	I	I	I	I	1
Lung	+	+	+	+	+	5
Perivascular, Infiltration Cellular, Lymphocyte, Focal	1	1				2 1.0
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5

**Special Senses System**

Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5

**Urinary System**

Kidney	+	+	+	+	+	5
--------	---	---	---	---	---	---

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 Lab: MBA

F 344/N Rat Male  
 100 MG/KG

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	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	5	
	1	2	3	4	5	
	*TOTALS					

Urinary Bladder

+ M + + + 4

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

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:54:28

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female  
VEHICLE CONTROL

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	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	1
	6	7	8	9	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
Infiltration Cellular, Lymphocyte, Focal		1				1 1.0
Salivary Glands	+	+	+	+	+	5
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5

Cardiovascular System

Blood Vessel	+	+	+	+	+	5
Heart	+	+	+	+	+	5

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:54:28

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female  
VEHICLE CONTROL

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	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	1	
	6	7	8	9	0	<b>*TOTALS</b>

Parathyroid Gland	+	+	+	+	+	5
Pituitary Gland	+	+	I	+	+	4
Thyroid Gland	+	+	+	+	+	5
<b>General Body System</b>						
NONE						
<b>Genital System</b>						
Clitoral Gland	+	+	+	+	+	5
Ovary	+	+	+	+	+	5
Uterus	+	+	+	+	+	5
<b>Hematopoietic System</b>						
Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	+	+	+	+	+	5
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:54:29

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female  
VEHICLE CONTROL

	DAY ON TEST					
	0	0	0	0	0	
	0	0	0	0	0	
	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	1	
	6	7	8	9	0	<b>*TOTALS</b>
Skeletal Muscle	+	+	+	+	+	5
<b>Nervous System</b>						
Brain, NOS	+	+	+	+	+	5
Peripheral Nerve, Sciatic	+	+	+	+	+	5
Spinal Cord, Cervical	+	+	+	+	+	5
Spinal Cord, Lumbar	+	+	+	+	+	5
<b>Respiratory System</b>						
Larynx	1	+	+	+	1	3
Lung	+	+	+	+	+	5
Perivascular, Infiltration Cellular, Lymphocyte, Focal	1			1	1	3 1.0
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
<b>Special Senses System</b>						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
<b>Urinary System</b>						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

**Experiment Number:** 99021-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** alpha-Thujone  
**CAS Number:** 546-80-5

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:54:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

DAY ON TEST

**F 344/N Rat 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**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

**Test Compound:** alpha-Thujone

**CAS Number:** 546-80-5

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:54:29

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

**Lab:** MBA

DAY ON TEST

**F 344/N Rat Female**

**1.0 MG/KG**

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:54:29

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female  
3.0 MG/KG

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	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	
	2	2	2	2	3	
	6	7	8	9	0	*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Lymph Node M 0

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99021-01  
 Test Type: 14-DAY  
 Route: GAVAGE  
 Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Test Compound: alpha-Thujone  
 CAS Number: 546-80-5

Date Report Requested: 10/15/2014  
 Time Report Requested: 12:54:29  
 First Dose M/F: NA / NA  
 Lab: MBA

**F 344/N Rat Female**  
**3.0 MG/KG**

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	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	
	2	2	2	2	3	
	6	7	8	9	0	
						*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 99021-01  
Test Type: 14-DAY  
Route: GAVAGE  
Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
Test Compound: alpha-Thujone  
CAS Number: 546-80-5

Date Report Requested: 10/15/2014  
Time Report Requested: 12:54:29  
First Dose M/F: NA / NA  
Lab: MBA

DAY ON TEST

F 344/N Rat 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**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

**Experiment Number:** 99021-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** alpha-Thujone  
**CAS Number:** 546-80-5

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:54:29  
**First Dose M/F:** NA / NA  
**Lab:** MBA

DAY ON TEST

**F 344/N Rat Female**  
**10.0 MG/KG**

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:54:29

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female  
30.0 MG/KG

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	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
	4	4	4	4	5
	6	7	8	9	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

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:54:29

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female  
30.0 MG/KG

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	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	
	4	4	4	4	5	
	6	7	8	9	0	<b>*TOTALS</b>

Pituitary Gland	+	+	+	I	+	4
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

Clitoral Gland	+	+	+	+	+	5
Ovary	+	+	+	+	+	5
Uterus	+	+	+	+	+	5
Hydrometra					2	1 2.0

Hematopoietic System

Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5

Integumentary System

Mammary Gland	+	+	+	+	+	5
Skin	+	+	+	+	+	5

Musculoskeletal System

Bone	+	+	+	+	+	5
------	---	---	---	---	---	---

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:54:29

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female  
30.0 MG/KG

	DAY ON TEST					
	0	0	0	0	0	
	0	0	0	0	0	
	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	
	4	4	4	4	5	
	6	7	8	9	0	<b>*TOTALS</b>
Skeletal Muscle	+	+	+	+	+	5
<b>Nervous System</b>						
Brain, NOS	+	+	+	+	+	5
Peripheral Nerve, Sciatic	+	+	+	+	+	5
Spinal Cord, Cervical	+	+	+	+	+	5
Spinal Cord, Lumbar	+	+	+	+	+	5
<b>Respiratory System</b>						
Larynx	+	+	+	+	+	5
Lung	+	+	+	+	+	5
Perivascular, Infiltration Cellular, Lymphocyte, Focal		1	1			2 1.0
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
<b>Special Senses System</b>						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
Infiltration Cellular, Lymphocyte, Focal			3			1 3.0
<b>Urinary System</b>						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:54:29

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female  
100 MG/KG

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	1	1	1	0	0
	7	5	7	8	8
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
	*TOTALS				

Alimentary System

Esophagus	+	+	+	+	+	5
Intestine Large, Cecum	+	+	+	+	A	4
Intestine Large, Colon	+	+	+	+	A	4
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	A	4
Intestine Small, Ileum	+	+	+	+	A	4
Intestine Small, Jejunum	+	+	+	+	A	4
Liver	+	+	+	+	+	5
Pancreas	+	+	+	+	+	5
Salivary Glands	+	+	+	+	+	5
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	A	4

Cardiovascular System

Blood Vessel	+	+	+	+	+	5
Heart	+	+	+	+	+	5

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	M	+	+	+	+	4
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	M	+	M	M	2

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:54:29

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female  
100 MG/KG

	DAY ON TEST					
	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	0	0	
	7	5	7	8	8	
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>				
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5
<b>General Body System</b>						
NONE						
<b>Genital System</b>						
Clitoral Gland	+	+	+	+	+	5
Ovary	+	+	+	+	+	5
Uterus	+	+	+	+	+	5
<b>Hematopoietic System</b>						
Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
Hemorrhage, Focal			1			1 1.0
<b>Integumentary System</b>						
Mammary Gland	+	+	+	+	+	5
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:54:29

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Female  
100 MG/KG

	DAY ON TEST							
	0	0	0	0	0			
	0	0	0	0	0			
	1	1	1	0	0			
	7	5	7	8	8			
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	8	9			
		<b>*TOTALS</b>						
Skeletal Muscle	+	+	+	+	+	5		
<b>Nervous System</b>								
Brain, NOS	+	+	+	+	+	5		
Chor Plexus, Hemorrhage, Focal				3			1	3.0
Peripheral Nerve, Sciatic	+	+	+	+	+	5		
Spinal Cord, Cervical	+	+	+	+	+	5		
Spinal Cord, Lumbar	+	+	+	+	+	5		
<b>Respiratory System</b>								
Larynx	M	I	+	+	+	3		
Lung	+	+	+	+	+	5		
Alveolus, Hyperplasia, Histiocytic, Focal			1				1	1.0
Nose	+	+	+	+	A	4		
Trachea	+	+	+	+	+	5		
<b>Special Senses System</b>								
Eye	+	+	+	+	+	5		
Harderian Gland	+	+	+	+	+	5		
Infiltration Cellular, Lymphocyte, Focal		2					1	2.0
<b>Urinary System</b>								
Kidney	+	+	+	+	+	5		
Renal Tubule, Degeneration, Focal	3						1	3.0
Urinary Bladder	+	+	+	+	+	5		

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

**Test Compound:** alpha-Thujone

**CAS Number:** 546-80-5

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:54:29

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

**Lab:** MBA

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

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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