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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone CAS Number: 546-80-5 Date Report Requested: 10/15/2014 Time Report Requested: 12:53:23 First Dose M/F: NA / NA Lab: MBA

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

Test Type: 14-DAY Route: GAVAGE

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone CAS Number: 546-80-5 Date Report Requested: 10/15/2014 Time Report Requested: 12:53:23 First Dose M/F: NA / NA Lab: MBA

F 344/N Rat Male VEHICLE CONTROL	DAY ON TEST ANIMAL ID	<i>0</i> <i>0</i> <i>1</i> <i>7</i> 0 0 0 0 0 1	<i>0</i> <i>0</i> <i>1</i> <i>7</i> 0 0 0 0 0 2	<i>0</i> <i>0</i> <i>1</i> <i>7</i> 0 0 0 0 3	0 0 1 7 0 0 0 0 4	<i>0</i> <i>0</i> <i>1</i> <i>7</i> 0 0 0 0 5	*TOTALS
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 tumor

+ .. 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: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone CAS Number: 546-80-5 Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

F 344/N Rat Male VEHICLE CONTROL	DAY ON TEST ANIMAL ID	0 0 1 7 0 0 0 0 0 1 +	0 0 1 7 0 0 0 0 2 +	0 0 1 7 0 0 0 0 3 +	0 0 1 7 0 0 0 0 4 +	0 0 1 7 0 0 0 0 5 +	*TOTALS
Thyroid Gland		+	+	+	+	+	5
General Body System							
NONE Genital System							
Epididymis		+	+	+	+	+	5
Preputial Gland		+	+	+	+	+	5
Prostate		+	+	+	+	+	5
Seminal Vesicle		+	+	+	+	+	5
Testes		+	+	+	+	+	5
Hematopoietic System							
Bone Marrow		+	+	+	+	+	5
Lymph Node, Mandibular		+	+	М	+	М	3
Lymph Node, Mesenteric		+	+	+	+	+	5
Spleen		+	+	+	+	+	5
Thymus		+	+	+	+	+	5
Integumentary System							
Mammary Gland		+	+	+	+	+	5
Skin		+	+	+	+	+	5
Musculoskeletal 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

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone CAS Number: 546-80-5 Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

F 344/N Rat Male VEHICLE CONTROL	DAY ON TEST ANIMAL ID	0 0 1 7 0 0 0 0 1	0 0 1 7 0 0 0 0 2	0 0 1 7 0 0 0 0 3	0 0 1 7 0 0 0 0 4	0 0 1 7 0 0 0 0 5	*TOTALS
Bone		+	+	+	+	+	5
Skeletal Muscle Nervous System		+	+	+	+	+	5
Brain, NOS		+	+	+	+	+	5
Peripheral Nerve, Sciatic		+	+	+	+	+	5
Spinal Cord, Cervical		+	+	+	+	+	5
Spinal Cord, Lumbar		+	+	+	+	+	5
Respiratory System							
Larynx		+	+	I	+	+	4
Lung		+	+	+	+	+	5
Nose		+	+	+	+	+	5
Trachea		+	+	+	+	+	5
Special Senses System							
Eye		+	+	+	+	+	5
Harderian Gland		+	+	+	+	+	5
Urinary System							
Kidney		+	+	+	+	+	5
Urinary Bladder SYSTEMIC LESIONS		+	+	+	+	+	5
Multiple Organ		+	+	+	+	+	5

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

 Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

F 344/N Rat Male	DAY ON TEST	0 0 1	0 0 1	0 0 1	0 0 1	0 0 1	
1.0 MG/KG	ANIMAL ID	7 0 0 0 1 1	7 0 0 1 2	7 0 0 0 1 3	7 0 0 0 1 4	7 0 0 0 1 5	*TOTALS
Alimentary System	·						
Liver Cardiovascular System				+			1
NONE Endocrine System							
NONE General Body System							
NONE Genital System							
NONE Hematopoietic System							
NONE Integumentary System							
NONE Musculoskeletal System							
Bone Nervous System			+				1
Brain, NOS			+				1

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

DAY ON TEST 0 0 0 0 0 0 0 0 0 0 F 344/N Rat Male 1 7 1 7 1 7 1 7 1 7 MG/KG

1

ANIMAL ID

0 0 0

Õ 0

4

0 0 1 5 0 0 1 3 1

***TOTALS**

Respiratory System

NONE

Special Senses System

NONE

1.0

Urinary System

NONE SYSTEMIC LESIONS

Multiple Organ	+ +	2
----------------	-----	---

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

Test Type: 14-DAY Route: GAVAGE

Species/Strain: Rat/F 344/N

DAY ON TEST 0 0 0 0 0 0 0 0 0 0 F 344/N Rat Male 1 7 1 7 1 7 1 7 1 MG/KG 7 3.0 0 0 0 0 0 0 2 1 0 0 2 2 ANIMAL ID 0 0 2 5 0 0 0 0 2 3 2 4 ***TOTALS**

+

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Lymph Node

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone CAS Number: 546-80-5 Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

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

1

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

	DAY ON TEST	0	0	0	0	0	
F 344/N Rat Male 3.0 MG/KG	DAT ON TEOT	0 1 7	0 1 7	0 1 7	0 1 7	0 1 7	
	ANIMAL ID	0 0 0 2 1	0 0 0 2 2	0 0 0 2 3	0 0 0 2 4	0 0 0 2 5	*TOTALS
Beeniretery System					<u> </u>	-	

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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

Experiment Number: 99021-0 Test Type: 14-DAY Route: GAVAGE Species/Strain: Rat/F 344/N	1	P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED) Test Compound: alpha-Thujone CAS Number: 546-80-5	Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA
F 344/N Rat Male 10.0 MG/KG	DAY ON TEST 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			

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Experiment Number: 99021-0 Test Type: 14-DAY Route: GAVAGE Species/Strain: Rat/F 344/N	1	P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED) Test Compound: alpha-Thujone CAS Number: 546-80-5	Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 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 Systemic lesions			
Multiple Organ		0	

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Experiment Number: 99021-0 Test Type: 14-DAY Route: GAVAGE Species/Strain: Rat/F 344/N	1	P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED) Test Compound: alpha-Thujone CAS Number: 546-80-5	Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA
F 344/N Rat Male 30.0 MG/KG	DAY ON TEST 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			

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Experiment Number: 99021-0 Test Type: 14-DAY Route: GAVAGE Species/Strain: Rat/F 344/N	1	P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED) Test Compound: alpha-Thujone CAS Number: 546-80-5	Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA
	DAY ON TEST		
F 344/N Rat Male 30.0 MG/KG			
	ANIMAL ID		
		<u>*TOTALS</u>	
Respiratory System			
NONE Special Senses System			
NONE Urinary System			
NONE Systemic lesions			
Multiple Organ		0	

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone CAS Number: 546-80-5 Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

F 344/N Rat Male 100 MG/KG	DAY ON TEST ANIMAL ID	<i>0</i> <i>0</i> <i>1</i> <i>7</i> 0 0 0 5 1	<i>0</i> <i>0</i> <i>1</i> <i>7</i> 0 0 0 5 2	0 0 1 7 0 0 0 5 3	0 0 1 7 0 0 0 5 4	0 0 1 7 0 0 0 5 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
Salivary Glands		+	+	+	+	+	5 5
Stomach, Forestomach Stomach, Glandular		+	+ +	+ +	+ +	+	ວ 5
Cardiovascular System		+	Ŧ	Ŧ	+	+	5
Blood Vessel		+	+	+	+	+	5
Heart		+	+	+	+	+	5
Endocrine System							
Adrenal Cortex		+	+	+	+	+	5
Adrenal Medulla		+	+	+	+	+	5
Islets, Pancreatic		+	+	+	+	+	5
Parathyroid Gland		+	+	+	М	+	4

* ..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

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone CAS Number: 546-80-5 Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

F 344/N Rat Male 100 MG/KG	DAY ON TEST ANIMAL ID	<i>0</i> <i>0</i> <i>1</i> <i>7</i> 0 0 0 5 1	<i>0</i> <i>0</i> <i>1</i> <i>7</i> 0 0 0 5 2	0 0 1 7 0 0 0 5 3	0 0 1 7 0 0 0 5 4	0 0 1 7 0 0 0 5 5	*TOTALS
Pituitary Gland		+	+	+	+	+	5
Thyroid Gland		+	+	+	+	+	5
General Body System							
NONE Genital System							
Epididymis		+	+	+	+	+	5
Preputial Gland		+	+	+	+	+	5
Prostate		+	+	+	+	+	5
Seminal Vesicle		+	+	+	+	+	5
Testes		+	+	+	+	+	5
Hematopoietic System							
Bone Marrow		+	+	+	+	+	5
Lymph Node, Mandibular		Μ	Μ	Μ	М	М	0
Lymph Node, Mesenteric		+	+	+	+	+	5
Spleen		+	+	+	+	+	5
Thymus		+	+	+	+	+	5
Integumentary System							
Mammary Gland		+	+	М	М	+	3
Skin		+	+	+	+	+	5
Musculoskeletal 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

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone CAS Number: 546-80-5

46-80-5

Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

F 344/N Rat Male 100 MG/KG	DAY ON TEST ANIMAL ID	<i>0</i> <i>0</i> <i>1</i> <i>7</i> 0 0 0 5 1	0 0 1 7 0 0 0 5 2	0 0 1 7 0 0 0 5 3	0 0 1 7 0 0 0 5 4	0 0 1 7 0 0 0 5 5	*TOTALS
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		+	Ι	Ι	Ι	Ι	1
Lung		+	+	+	+	+	5
Nose		+	+	+	+	+	5
Trachea		+	+	+	+	+	5
Special Senses System							
Eye		+	+	+	+	+	5
Harderian Gland		+	+	+	+	+	5
Urinary System							
Kidney		+	+	+	+	+	5
Urinary Bladder SYSTEMIC LESIONS		+	Μ	+	+	+	4
Multiple Organ		+	+	+	+	+	5

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone CAS Number: 546-80-5

END OF MALE DATA

Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Test Type: 14-DAY Route: GAVAGE

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone CAS Number: 546-80-5 Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

F 344/N Rat Female VEHICLE CONTROL	DAY ON TEST ANIMAL ID	<i>0</i> <i>0</i> <i>1</i> <i>7</i> 0 0 0 0 0 6	0 0 1 7 0 0 0 0 7	0 0 1 7 0 0 0 0 8	0 0 1 7 0 0 0 0 9	<i>0</i> <i>0</i> <i>1</i> <i>7</i> 0 0 0 0 1 0	*TOTALS
Esophagus					i	+	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 tumor

+ .. 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: Rat/F 344/N

DAY ON TEST 0 0 0 0 0 0 0 0 0 0 F 344/N Rat Female 1 7 1 7 1 7 1 7 1 7 **VEHICLE CONTROL** 0 0 0 0 0 0 0 0 ANIMAL ID Ō 0 0 0 0 0 0 0 6 0 7 0 8 1 0 0 9 ***TOTALS Pituitary Gland** 4 + + + + Thyroid Gland 5 + + + + + **General Body System** NONE **Genital System Clitoral Gland** 5 Ovary 5 5 Uterus Hematopoietic System

Hematopoletic System						
Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	М	Μ	Μ	Μ	Μ	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
Integumentary System						
Mammary Gland	+	+	+	+	+	5
Skin	+	+	+	+	+	5
Musculoskeletal System						
Bone	+	+	+	+	+	5
Skeletal Muscle	+	+	+	+	+	5

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone **CAS Number:** 546-80-5

Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

Test Type: 14-DAY

Route: GAVAGE Species/Strain: Rat/F 344/N P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

F 344/N Rat Female VEHICLE CONTROL	DAY ON TEST ANIMAL ID	0 0 1 7 0 0 0 0 6	0 0 1 7 0 0 0 0 7	0 0 1 7 0 0 0 0 8	0 0 1 7 0 0 0 0 9	0 0 1 7 0 0 0 0 1 0	*TOTALS
Brain, NOS		+	+	+	+	+	5
Peripheral Nerve, Sciatic		+	+	+	+	+	5
Spinal Cord, Cervical		+	+	+	+	+	5
Spinal Cord, Lumbar		+	+	+	+	+	5
Respiratory System							
Larynx		Т	+	+	+	Ι	3
Lung		+	+	+	+	+	5
Nose		+	+	+	+	+	5
Trachea		+	+	+	+	+	5
Special Senses System							
Eye		+	+	+	+	+	5
Harderian Gland		+	+	+	+	+	5
Urinary System							
Kidney		+	+	+	+	+	5
Urinary Bladder SYSTEMIC LESIONS		+	+	+	+	+	5
Multiple Organ		+	+	+	+	+	5

* ..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

Experiment Number: 99021-01 Test Type: 14-DAY Route: GAVAGE Species/Strain: Rat/F 344/N		P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED) Test Compound: alpha-Thujone CAS Number: 546-80-5	Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA
F 344/N Rat Female	DAY ON TEST		
1.0 MG/KG	ANIMAL ID		
Alimentary System		<u>*TOTALS</u>	
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			

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Experiment Number: 99021-0 Test Type: 14-DAY Route: GAVAGE Species/Strain: Rat/F 344/N	1	P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED) Test Compound: alpha-Thujone CAS Number: 546-80-5	Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA
	DAY ON TEST		
F 344/N Rat Female			
1.0 MG/KG			
	ANIMAL ID		
		<u>*TOTALS</u>	
Respiratory System			
NONE Special Senses System			
NONE Urinary System			
NONE Systemic lesions			
Multiple Organ		0	

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Test Type: 14-DAY

Route: GAVAGE

I .. Insufficient tissue

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone **CAS Number:** 546-80-5

Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

F 344/N Rat Female 3.0 MG/KG	DAY ON TEST	<i>0</i> <i>0</i> <i>1</i> <i>7</i> 0 0 0 2 6	0 0 1 7 0 0 0 0 2 7	0 0 1 7 0 0 0 2 8	0 0 1 7 0 0 0 2 9	0 0 1 7 0 0 0 3 0	*TOTALS		
Alimentary System									
NONE Cardiovascular System									
NONE Endocrine System									
NONE General Body System									
NONE Genital System									
NONE Hematopoietic System									
Lymph Node Integumentary System			Μ				0		
NONE Musculoskeletal System									
NONE Nervous System									
NONE									
 *Total animals with tissue exam +Tissue examined microscopica XLesion present 		Fotal	anim	als w	vith tu	mor		MMissing tissue AAutolysis precludes evaluation BLANKNot examined microscopically	

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

DAY ON TEST 0 0 0 0 0 0 0 0 0 0 F 344/N Rat Female 1 7 1 7 1 7 1 7 1 7 MG/KG 3.0 0 0 0 0 0 0 2 6 0 0 0 2 7 ANIMAL ID 0 0 3 0 Õ 0 0 0 2 8 2 9 ***TOTALS**

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE SYSTEMIC LESIONS

Multiple Organ

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

0

Experiment Number: 99021-0 Test Type: 14-DAY Route: GAVAGE Species/Strain: Rat/F 344/N	1	P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGE Test Compound: alpha-Thujone CAS Number: 546-80-5	D) Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA
F 344/N Rat Female 10.0 MG/KG	DAY ON TEST 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			

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Experiment Number: 99021-0 Test Type: 14-DAY Route: GAVAGE Species/Strain: Rat/F 344/N	11	P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED) Test Compound: alpha-Thujone CAS Number: 546-80-5	Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA
F 344/N Rat Female 10.0 MG/KG	DAY ON TEST		
	ANIMAL ID	*TOTALS	
Respiratory System			
NONE Special Senses System			
NONE Urinary System			
NONE Systemic Lesions			
Multiple Organ		0	

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone CAS Number: 546-80-5 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

Date Report Requested: 10/15/2014

F 344/N Rat Female 30.0 MG/KG Alimentary System	DAY ON TEST ANIMAL ID	0 0 1 7 0 0 0 4 6	0 0 1 7 0 0 0 4 7	0 0 1 7 0 0 0 4 8	0 0 1 7 0 0 0 4 9	0 0 1 7 0 0 0 5 0	*TOTALS
, amontaly eyetem							
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 Stomach, Forestomach		+	+	+	+	+	5 5
Stomach, Glandular		++	+ +	++	+ +	++	5
Cardiovascular System		т	т	т	т	т	5
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 tumor

+ ..Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

M ..Missing tissue A ..Autolysis precludes evaluation

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone CAS Number: 546-80-5 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

Date Report Requested: 10/15/2014

F 344/N Rat Female 30.0 MG/KG Pituitary Gland	DAY ON TEST ANIMAL ID	0 0 1 7 0 0 0 4 6 +	<i>0</i> <i>0</i> <i>1</i> <i>7</i> 0 0 0 4 7 +	0 0 1 7 0 0 0 4 8 +	0 0 1 7 0 0 0 4 9	0 0 1 7 0 0 0 5 0	*TOTALS
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	Μ	М	М	0
Lymph Node, Mesenteric		+	+	+	+	+	5
Spleen		+	+	+	+	+	5
Thymus		+	+	+	+	+	5
Integumentary System							
Mammary Gland		+	+	+	+	+	5
Skin		+	+	+	+	+	5
Musculoskeletal System							
Bone		+	+	+	+	+	5
Skeletal Muscle		+	+	+	+	+	5

* .. 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

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone CAS Number: 546-80-5 Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

F 344/N Rat Female 30.0 MG/KG	DAY ON TEST ANIMAL ID	<i>0</i> <i>0</i> <i>1</i> <i>7</i> 0 0 0 4 6	<i>0</i> <i>0</i> <i>1</i> <i>7</i> 0 0 0 4 7	0 0 1 7 0 0 0 4 8	0 0 1 7 0 0 0 4 9	0 0 1 7 0 0 0 5 0	*TOTALS
-							
Brain, NOS		+	+	+	+	+	5
Peripheral Nerve, Sciatic		+	+	+	+	+	5
Spinal Cord, Cervical		+	+	+	+	+	5
Spinal Cord, Lumbar		+	+	+	+	+	5
Respiratory System							
Larynx		+	+	+	+	+	5
Lung		+	+	+	+	+	5
Nose		+	+	+	+	+	5
Trachea		+	+	+	+	+	5
Special Senses System							
Eye		+	+	+	+	+	5
Harderian Gland		+	+	+	+	+	5
Urinary System							
Kidney		+	+	+	+	+	5
Urinary Bladder		+	+	+	+	+	5
SYSTEMIC LESIONS							-
Multiple Organ		+	+	+	+	+	5

* .. 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

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone CAS Number: 546-80-5 Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

F 344/N Rat Female 100 MG/KG Alimentary System	DAY ON TEST ANIMAL ID	<i>0</i> <i>0</i> <i>1</i> <i>7</i> 0 0 0 5 6	<i>0</i> <i>0</i> <i>1</i> <i>5</i> <i>0</i> <i>0</i> <i>0</i> <i>5</i> <i>7</i>	<i>0</i> <i>0</i> <i>1</i> <i>7</i> 0 0 0 5 8	0 0 8 0 0 0 5 9	0 0 8 0 0 0 6 0	*TOTALS
Esophagus		+	+	+	+	+	5
Intestine Large, Cecum		+	+	+	+	А	4
Intestine Large, Colon		+	+	+	+	А	4
Intestine Large, Rectum		+	+	+	+	+	5
Intestine Small, Duodenum		+	+	+	+	А	4
Intestine Small, Ileum		+	+	+	+	А	4
Intestine Small, Jejunum		+	+	+	+	А	4
Liver		+	+	+	+	+	5
Pancreas		+	+	+	+	+	5
Salivary Glands		+	+	+	+	+	5
Stomach, Forestomach		+	+	+	+	+	5
Stomach, Glandular		+	+	+	+	А	4
Cardiovascular System							
Blood Vessel		+	+	+	+	+	5
Heart		+	+	+	+	+	5
Endocrine System							
Adrenal Cortex		+	+	+	+	+	5
Adrenal Medulla		М	+	+	+	+	4
Islets, Pancreatic		+	+	+	+	+	5
Parathyroid Gland		+	М	+	М	М	2

* ..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

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone CAS Number: 546-80-5 Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

F 344/N Rat Female 100 MG/KG Pituitary Gland	DAY ON TEST ANIMAL ID	0 0 1 7 0 0 0 5 6 +	0 0 1 5 0 0 0 5 7 +	0 0 1 7 0 0 0 5 8 +	0 0 8 0 0 5 9 +	0 0 8 0 0 0 6 0 +	*TOTALS
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
Thymus		+	+	+	+	+	5
Integumentary System							
Mammary Gland		+	+	+	+	+	5
Skin		+	+	+	+	+	5
Musculoskeletal System							
Bone		+	+	+	+	+	5
Skeletal Muscle		+	+	+	+	+	5

* .. 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

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: alpha-Thujone CAS Number: 546-80-5 Date Report Requested: 10/15/2014 Time Report Requested: 12:53:24 First Dose M/F: NA / NA Lab: MBA

F 344/N Rat Female 100 MG/KG	DAY ON TEST ANIMAL ID	<i>0</i> <i>0</i> <i>1</i> <i>7</i> 0 0 0 5 6	0 0 1 5 0 0 0 5 7	0 0 1 7 0 0 0 5 8	0 0 8 0 0 0 0 5 9	0 0 8 0 0 0 0 0 0 6 0	*TOTALS_
Nervous System							
Brain, NOS		+	+	+	+	+	5
Peripheral Nerve, Sciatic		+	+	+	+	+	5
Spinal Cord, Cervical		+	+	+	+	+	5
Spinal Cord, Lumbar		+	+	+	+	+	5
Respiratory System							
Larynx		М	Ι	+	+	+	3
Lung		+	+	+	+	+	5
Nose		+	+	+	+	А	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 REPORT **

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue