Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

#### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

**Test Compound:** alpha/beta Thujone mixture

**CAS Number:** 76231-76-0

Date Report Requested: 10/19/2014 Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

C Number: C99037

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

Cage Range: ΑII

**Date Range:** ΑII

**Reasons For Removal:** ΑII

**Removal Date Range:** ΑII

**Treatment Groups:** ΑII

**Study Gender:** Both

**PWG Approval Date NONE** 

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

**Test Compound:** alpha/beta Thujone mixture

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Date Report Requested: 10/19/2014

Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

B6C3F1	Mouse	Male
VEHICL	E CONT	ROL

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	1	1	1	1	1
	8	8	8	8	8
ANIMAL ID	0	0	0	0	0
AMIMAL ID	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	1	2	3	4	5

\*TOTALS

ΑI	ıme	ntary	Sys	stem
			-,-	

Annientary System						
Esophagus	+	+	+	+	+	5
Gallbladder	+	+	+	+	+	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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/19/2014

Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

**Test Compound:** alpha/beta Thujone mixture

**CAS Number:** 76231-76-0

Species/Strain: Mouse/B6C3F1

Test Type: 14-DAY

Route: GAVAGE

B6C3F1 Mouse Male VEHICLE CONTROL  Parathyroid Gland	DAY ON TEST	0 0 1 8 0 0 0 0 0	0 0 1 8 0 0 0 0 0 2	0 0 1 8 0 0 0 0 0 3	0 0 1 8 0 0 0 0 0 4	0 0 1 8 0 0 0 0 0 5	*TOTALS
Pituitary Gland		+	i	+	М	+	3
Thyroid Gland		+	+	+	1	+	4
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		+	+	+	+	+	5
Lymph Node, Mesenteric		+	+	+	+	+	5
Spleen		+	+	+	+	+	5
Thymus		M	+	+	+	+	4
Integumentary System							
Mammary Gland		М	М	М	М	М	0
Skin		+	+	+	+	+	5

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

**CAS Number:** 76231-76-0

Date Report Requested: 10/19/2014

Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

Species/Strain: Mouse/B6C3F1

Test Type: 14-DAY

Route: GAVAGE

B6C3F1 Mouse Ma	le
VEHICLE CONTRO	L

Musculoskeletal System

Peripheral Nerve, Sciatic Spinal Cord, Cervical Spinal Cord, Lumbar Respiratory System

**Special Senses System** 

Harderian Gland

Urinary Bladder

**Urinary System** 

Kidney

Skeletal Muscle
Nervous System
Brain, NOS

Bone

Larynx Lung Nose Trachea

Eve

DAY ON TEST  ANIMAL ID	0 0 1 8 0 0 0 0	0 0 1 8 0 0 0 0 0	0 0 1 8 0 0 0 0 0 3	0 0 1 8 0 0 0 0 0 4	0 0 1 8 0 0 0 0 5	*TOTALS
		•	•	•	•	
	+	+	ı	+	+	4
	+	+	+	+	+	5
	+	+	+	+	+	5
	+	+	+	+	+	5
	+	+	+	+	+	5
	+	+	+	+	+	5
	ı	I	I	I	I	0
	+	+	+	+	+	5
	+	+	+	+	+	5
	+	+	+	+	+	5

M ..Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

5

5

5 5

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

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

X ..Lesion present

I .. Insufficient tissue

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

**CAS Number:** 76231-76-0

Date Report Requested: 10/19/2014

Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

Route: GAVAGE

Test Type: 14-DAY

Species/Strain: Mouse/B6C3F1

B6C3F1 Mouse Male VEHICLE CONTROL

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	1	1	1	1	1
	8	8	8	8	8
V VIIIVAVI ID	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

#### **SYSTEMIC LESIONS**

Multiple Organ

5

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: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 10/19/2014 Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

### B6C3F1 Mouse 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** 

NONE

I ..Insufficient tissue

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

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

Species/Strain: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 10/19/2014 Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

### B6C3F1 Mouse Male 1.0 MG/KG

ANIMAL ID

\*TOTALS

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

**SYSTEMIC LESIONS** 

Multiple Organ 0

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: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 10/19/2014 Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

# B6C3F1 Mouse 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** 

NONE

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: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

**CAS Number:** 76231-76-0

Date Report Requested: 10/19/2014 Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

B6C3F1 Mouse Male 3.0 MG/KG

ANIMAL ID

\*TOTALS

0

**Respiratory System** 

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: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 10/19/2014 Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

## B6C3F1 Mouse 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

I ..Insufficient tissue

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

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

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

X .. Lesion present

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

Species/Strain: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 10/19/2014 Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

B6C3F1 Mouse Male 10.0 MG/KG

ANIMAL ID

\*TOTALS

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

**SYSTEMIC LESIONS** 

Multiple Organ 0

I .. Insufficient tissue

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

**Test Compound:** alpha/beta Thujone mixture

**CAS Number:** 76231-76-0

Date Report Requested: 10/19/2014

Time Report Requested: 07:37:41

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

Species/Strain: Mouse/B6C3F1

Test Type: 14-DAY

Route: GAVAGE

B6C3	F1 Mouse Male
30.0	MG/KG

DAY ON TEST	0	0	0	0	0
	<i>1</i> 8	1 8	<i>1</i> 8	<i>1</i> 8	1 8
ANIMAL ID	0 0	0 0	0	0 0	0 0
	4 1	4 2	4	4	4 5

\*TOTALS

	1	2	3	4	5	*TOTALS
Alimentary System						
Esophagus	+	+	+	+	+	5
Gallbladder	+	+	+	I	+	4
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	М	+	+	+	+	4
Heart	+	+	+	+	+	5
Endocrine System						
Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

**Test Compound:** alpha/beta Thujone mixture

Date Report Requested: 10/19/2014

Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

**CAS Number:** 76231-76-0

Species/Strain: Mouse/B6C3F1

Test Type: 14-DAY

Route: GAVAGE

B6C3F1 Mouse Male 30.0 MG/KG	DAY ON TEST  ANIMAL ID	0 0 1 8 0 0 0 4 1	0 0 1 8 0 0 0 0 4 2	0 0 1 8 0 0 0 0 4 3	0 0 1 8 0 0 0 0 4 4	0 0 1 8 0 0 0 0 4 5	*TOTALS
Parathyroid Gland		M	+	M	+	+	3
Pituitary Gland		+	+	M	+	+	4
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	+	M	+	3
Lymph Node, Mesenteric		+	+	+	+	+	5
Spleen		+	+	+	+	+	5
Thymus		+	+	+	+	+	5
Integumentary System							
Mammary Gland		М	М	М	М	М	0
Skin		+	+	+	+	+	5

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

**CAS Number:** 76231-76-0

Date Report Requested: 10/19/2014

Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

Species/Strain: Mouse/B6C3F1

B6C3F	<b>-</b> 1	Mouse	Male
30.0	M	G/KG	

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	1	1	1	1	1
	8	8	8	8	8
ANIMAL ID	0	0	0	0	0
AMINAL ID	0	0	0	0	0
	0	0	0	0	0
	4	4	4	4	4 5
	1	2	3	4	5

* 7	( )	ΤΔΙ	I S .

	1	2	3	4	5	<u>*TOTALS</u>
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	+	+	М	3
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
Special Senses System						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
Urinary System						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

**CAS Number:** 76231-76-0

Route: GAVAGE

Test Type: 14-DAY

Species/Strain: Mouse/B6C3F1

Lab: MBA

Date Report Requested: 10/19/2014

Time Report Requested: 07:37:41

First Dose M/F: NA / NA

B6C3	F1 Mouse	Male
30.0	MG/KG	

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	8	8	8	8	8	
ANIMAL ID	0	0	0	0	0	
AMIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	4	4	4	4	4	
	1	2	3	4	5	

\*TOTALS

#### **SYSTEMIC LESIONS**

Multiple Organ

5

I .. Insufficient tissue

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

**Test Compound:** alpha/beta Thujone mixture

Date Report Requested: 10/19/2014

Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

**CAS Number:** 76231-76-0

Species/Strain: Mouse/B6C3F1

Test Type: 14-DAY

Route: GAVAGE

B6C3F	1 Mouse	Male
100	MG/KG	

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	1	1	1	1	1
	5	6	1	0	1
ANIMAL ID	0	0	0	0	0
AMINAL ID	0	0	0	0	0
	0	0	0	0	0
	5	5	5	5	5
	1	2	3	4	5

	5	5	5	5	5 5	*TOTALS
Alimentary System				-		
Esophagus	+	+	+	+	+	5
Gallbladder	+	+	Α	+	+	4
Intestine Large, Cecum	+	+	+	Α	Α	3
Intestine Large, Colon	+	+	+	Α	+	4
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	Α	+	Α	Α	2
Intestine Small, Ileum	+	Α	+	Α	Α	2
Intestine Small, Jejunum	+	Α	Α	Α	Α	1
Liver	+	+	+	+	+	5
Pancreas	+	+	+	+	+	5
Salivary Glands	+	+	+	Α	+	4
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	Α	Α	Α	Α	1
Cardiovascular System						
Blood Vessel	+	+	+	+	+	5
Heart	+	+	+	+	+	5
Endocrine System						
Adrenal Cortex	+	+	+	+	ı	4
Adrenal Medulla	+	+	+	+	М	4
Islets, Pancreatic	+	+	+	+	+	5

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/19/2014

Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

**Test Compound:** alpha/beta Thujone mixture

**CAS Number:** 76231-76-0

Species/Strain: Mouse/B6C3F1

B6C3F1 Mouse Male 100 MG/KG	DAY ON TEST  ANIMAL ID	0 0 1 5 0 0 0 5 1	0 0 1 6 0 0 0 5 2	0 0 1 1 0 0 0 5 3	0 0 1 0 0 0 0 5 4	0 0 1 1 0 0 0 5 5	*TOTALS
Parathyroid Gland		М	+	М	+	+	3
Pituitary Gland		I	+	+	+	+	4
Thyroid Gland		+	+	+	+	+	5
General Body System							
Tissue NOS		+					1
Genital System							
Epididymis		+	+	+	+	+	5
Preputial Gland		+	+	+	+	+	5
Prostate		+	+	+	+	+	5
Seminal Vesicle		+	+	+	+	+	5
Testes		+	+	+	+	+	5
Hematopoietic System							
Bone Marrow		+	+	+	+	+	5
Lymph Node, Mandibular		+	+	+	Α	+	4
Lymph Node, Mesenteric		+	+	+	+	+	5
Spleen		+	+	+	+	+	5
Thymus		+	+	+	+	+	5
Integumentary System							
Mammary Gland		М	М	М	М	М	0
Skin		+	+	+	+	+	5

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

**Test Compound:** alpha/beta Thujone mixture

Date Report Requested: 10/19/2014

Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

**CAS Number:** 76231-76-0

DAY ON TEST A A A A A

Species/Strain: Mouse/B6C3F1

B6C3F1 Mouse Male 100 MG/KG	ANIMAL ID	0 0 1 5 0 0 0 5	0 0 1 6 0 0 0 5	0 0 1 1 0 0 0 5	0 0 1 0 0 0 0 5	0 0 1 1 0 0 0 5	**********
Musculoskeletal System		1	2	3	4	5	*TOTALS
Musculoskeletai 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		М	I	I	I	I	0
Lung		+	+	+	+	+	5
Nose		+	+	Α	+	+	4
Trachea		+	+	+	+	+	5
Special Senses System							
Eye		+	+	+	+	+	5
Harderian Gland		+	+	+	+	+	5
Urinary System							
Kidney		+	+	+	+	+	5

Urinary Bladder

M ..Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

5

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

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

X ..Lesion present

I .. Insufficient tissue

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

Date Report Requested: 10/19/2014

Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

CAS Number: 76231-76-0

Test Type: 14-DAY Route: GAVAGE

100

Species/Strain: Mouse/B6C3F1

**B6C3F1 Mouse Male** 

MG/KG

DAY ON TEST 0 0 0 0 0 *1* 5 1 1 0 0 0 0 0 0 5 2 ANIMAL ID 00055 Ō 0 5 1 0 5 3 0

\*TOTALS

**SYSTEMIC LESIONS** 

Multiple Organ

5

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

**Test Compound:** alpha/beta Thujone mixture

**CAS Number:** 76231-76-0

Route: GAVAGE
Species/Strain: Mouse/B6C3F1

Lab: MBA

Date Report Requested: 10/19/2014

Time Report Requested: 07:37:41

First Dose M/F: NA / NA

B6C3F1 Mouse Femal VEHICLE CONTROL	DAY ON TEST <b>e</b> ANIMAL ID	0 0 1 8 0 0 0 0 0 6	0 0 1 8 0 0 0 0 7	0 0 1 8 0 0 0 0 0 8	0 0 1 8 0 0 0 0 0 9	0 0 1 8 0 0 0 1 1 0	*TOTALS
Alimentary System							
Esophagus		+	+	+	+	+	5
Gallbladder		+	М	М	+	+	3
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

M ..Missing tissue

A .. Autolysis precludes evaluation

 $<sup>^{\</sup>star}\,$  ..Total animals with tissue examined microscopically; Total animals with tumor

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

X ..Lesion present

I .. Insufficient tissue

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

**Test Compound:** alpha/beta Thujone mixture

**CAS Number:** 76231-76-0

Date Report Requested: 10/19/2014

Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

Species/Strain: Mouse/B6C3F1

Test Type: 14-DAY

Route: GAVAGE

B6C3F1 Mouse Femal VEHICLE CONTROL	DAY ON TEST  e  ANIMAL ID	0 0 1 8 0 0 0	0 0 1 8 0 0 0	0 0 1 8 0 0 0	0 0 1 8 0 0 0	0 0 1 8 0 0 0 0	***********
		6	7	8	9	0	*TOTALS
Parathyroid Gland		+	+	М	М	+	3
Pituitary Gland		+	+	+	+	+	5
Thyroid Gland		+	+	+	+	+	5
General Body System							
NONE Genital System							
Clitoral Gland		+	+	+	+	М	4
Ovary		+	+	+	+	+	5
Uterus		+	+	+	+	+	5
Hematopoietic System							
Bone Marrow		+	+	+	+	+	5
Lymph Node, Mandibular		+	+	+	+	+	5
Lymph Node, Mesenteric		+	+	+	+	+	5
Spleen		+	+	+	+	+	5
Thymus		+	+	+	+	+	5
Integumentary System							
Mammary Gland		+	+	+	+	+	5
Skin		+	+	+	+	+	5
Musculoskeletal System							
Bone		+	+	+	+	+	5

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/19/2014

Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

**Test Compound:** alpha/beta Thujone mixture

**CAS Number:** 76231-76-0

Species/Strain: Mouse/B6C3F1

B6C3F1 Mouse Femal		0 0 1 8	0 0 1 8	0 0 1 8	0 0 1 8	0 0 1 8	
	ANIMAL ID	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 1 0	*TOTALS
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
Nose		+	+	+	+	+	5
Trachea		+	+	+	+	+	5
Special Senses System							
Eye		+	+	+	+	+	5
Harderian Gland		+	+	+	+	+	5
Urinary System							
Kidney		+	+	+	+	+	5
Urinary Bladder SYSTEMIC LESIONS		+	+	+	+	+	5
Multiple Organ		+	+	+	+	+	5

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: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 10/19/2014 Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

### B6C3F1 Mouse 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

I ..Insufficient tissue

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

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

Species/Strain: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 10/19/2014 Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

### B6C3F1 Mouse Female 1.0 MG/KG

ANIMAL ID

\*TOTALS

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

**SYSTEMIC LESIONS** 

Multiple Organ 0

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: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 10/19/2014 Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

# B6C3F1 Mouse 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** 

NONE

I .. Insufficient tissue

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

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

Species/Strain: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 10/19/2014 Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

# B6C3F1 Mouse Female 3.0 MG/KG

ANIMAL ID

\*TOTALS

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

**SYSTEMIC LESIONS** 

Multiple Organ 0

I ..Insufficient tissue

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

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

Species/Strain: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 10/19/2014 Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

# B6C3F1 Mouse 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

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

<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: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 10/19/2014 Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

# B6C3F1 Mouse Female 10.0 MG/KG

ANIMAL ID

\*TOTALS

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

**SYSTEMIC LESIONS** 

Multiple Organ 0

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: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 10/19/2014 Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

# B6C3F1 Mouse 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** 

NONE

I .. Insufficient tissue

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

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

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

X .. Lesion present

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

Species/Strain: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 10/19/2014 Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

DAY ON TEST

# B6C3F1 Mouse Female 30.0 MG/KG

ANIMAL ID

\*TOTALS

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

**SYSTEMIC LESIONS** 

Multiple Organ 0

I ..Insufficient tissue

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: alpha/beta Thujone mixture

Date Report Requested: 10/19/2014

Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

CAS Number: 76231-76-0

Species/Strain: Mouse/B6C3F1

Test Type: 14-DAY

Route: GAVAGE

DAY ON TE
B6C3F1 Mouse Female
100 MG/KG
ANIMAL

EST	0 0 1 1	0	0	0	0 0 1 8
	0	0	0	0	0
	1	0 1 6		1	1
	1	6	<i>1</i> 8	<i>1</i> 8	8
L ID	0	0	0		0
ᄓ	00056	00057	00058	00059	0 0 0 6 0
	0	0	0	0	0
	5	5	5	5	6
	6	7	8	9	0

\*TOTALS

	6	7	8	9	0	*TOTALS
Alimentary System						
Esophagus	+	+	+	+	+	5
Gallbladder	Α	+	+	+	+	4
Intestine Large, Cecum	Α	Α	+	+	+	3
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	Α	Α	+	+	+	3
Intestine Small, Ileum	Α	Α	+	+	+	3
Intestine Small, Jejunum	Α	Α	+	+	+	3
Liver	+	+	+	+	+	5
Pancreas	+	+	+	+	+	5
Salivary Glands	+	Α	+	+	+	4
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	Α	Α	+	+	+	3
Cardiovascular System						
Blood Vessel	+	+	+	+	+	5
Heart	+	+	+	+	+	5
Endocrine System						
Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	М	+	+	+	4
Islets, Pancreatic	+	+	+	+	+	5

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

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Test Type: 14-DAY

Route: GAVAGE

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

**Test Compound:** alpha/beta Thujone mixture

Date Report Requested: 10/19/2014

Time Report Requested: 07:37:41

First Dose M/F: NA / NA

Lab: MBA

**CAS Number:** 76231-76-0

Species/Strain: Mouse/B6C3F1

B6C3F1 Mouse Female 100 MG/KG	DAY ON TEST e  ANIMAL ID	0 0 1 1 0 0 0 5 6	0 0 1 6 0 0 0 5 7	0 0 1 8 0 0 0 5 8	0 0 1 8 0 0 0 5 9	0 0 1 8 0 0 0 6 0	*TOTALS
Parathyroid Gland		+	+	+	+	+	5
Pituitary Gland		+	I	+	+	+	4
Thyroid Gland  General Body System		+	+	+	+	+	5
NONE Genital System							
Clitoral Gland		+	+	+	М	+	4
Ovary		+	+	+	+	+	5
Uterus		+	Α	+	+	+	4
Hematopoietic System							
Bone Marrow		+	+	+	+	+	5
Lymph Node, Mandibular		+	+	+	+	+	5
Lymph Node, Mesenteric		+	+	+	+	+	5
Spleen		+	+	+	+	+	5
Thymus		+	+	+	+	+	5
Integumentary System							
Mammary Gland		+	+	+	+	+	5
Skin		+	+	+	+	+	5
Musculoskeletal System							
Bone		+	+	+	+	+	5

M ..Missing tissue

A .. Autolysis precludes evaluation

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

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X ..Lesion present

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Test Type: 14-DAY

Route: GAVAGE

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/19/2014

Time Report Requested: 07:37:41

First Dose M/F: NA / NA

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**Test Compound:** alpha/beta Thujone mixture

**CAS Number:** 76231-76-0

Species/Strain: Mouse/B6C3F1

B6C3F1 Mouse Female 100 MG/KG	DAY ON TEST	0 0 1 1 0 0 0 5 6	0 0 1 6 0 0 0 5 7	0 0 1 8 0 0 0 0 5 8	0 0 1 8 0 0 0 0 5	0 0 1 8 0 0 0 6 0	*TOTALS
Skeletal Muscle		+	+	+	+	+	5
Nervous System							
Brain, NOS		+	+	+	+	+	5
Peripheral Nerve, Sciatic		+	+	+	+	+	5
Spinal Cord, Cervical		+	+	+	+	+	5
Spinal Cord, Lumbar		+	+	+	+	+	5
Respiratory System							
Larynx		+	+	+	М	М	3
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
							** END OF REPORT **

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