

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:52:36  
**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

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:52:36

First Dose M/F: NA / NA

Lab: MBA

**ANIMAL ID:** 1

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB439M-1

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain, NOS	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Peripheral Nerve, Sciatic
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skeletal Muscle	* Skin	* Spinal Cord, Cervical
* Spinal Cord, Lumbar	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Lung	Perivascular	Infiltration Cellular	Lymphocyte, Focal, Minimal
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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:52:36

First Dose M/F: NA / NA

Lab: MBA

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<b>ANIMAL ID:</b> 2	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 17
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB439M-2

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

- |                            |                           |                             |                             |
|----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Bone                      |
| * Bone Marrow              | * Brain, NOS              | * Epididymis                | * Esophagus                 |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Larynx                    |
| * Liver                    | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    | * Mammary Gland             |
| * Nose                     | * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Pituitary Gland          | * Preputial Gland         | * Prostate                  | * Salivary Glands           |
| * Seminal Vesicle          | * Skeletal Muscle         | * Skin                      | * Spinal Cord, Cervical     |
| * Spinal Cord, Lumbar      | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular        |
| * Testes                   | * Thymus                  | * Thyroid Gland             | * Trachea                   |
| * Urinary Bladder          |                           |                             |                             |
- 

**OBSERVATIONS**

- |        |              |                       |                            |
|--------|--------------|-----------------------|----------------------------|
| * Lung | Perivascular | Infiltration Cellular | Lymphocyte, Focal, Minimal |
|--------|--------------|-----------------------|----------------------------|
- 

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

**ANIMAL ID:** 3

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB439M-3

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain, NOS	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skeletal Muscle	* Skin	* Spinal Cord, Cervical	* Spinal Cord, Lumbar
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Larynx

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

**ANIMAL ID:** 4

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB439M-4

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain, NOS	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Peripheral Nerve, Sciatic
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skeletal Muscle	* Skin	* Spinal Cord, Cervical
* Spinal Cord, Lumbar	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Pancreas	Infiltration Cellular	Lymphocyte, Focal, Minimal
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:52:36

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 17

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB439M-5

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex

\* Bone Marrow

\* Eye

\* Intestine Large, Colon

\* Intestine Small, Jejunum

\* Liver

\* Nose

\* Pituitary Gland

\* Seminal Vesicle

\* Spinal Cord, Lumbar

\* Testes

\* Urinary Bladder

\* Adrenal Medulla

\* Brain, NOS

\* Harderian Gland

\* Intestine Large, Rectum

\* Islets, Pancreatic

\* Lung

\* Pancreas

\* Preputial Gland

\* Skeletal Muscle

\* Spleen

\* Thymus

\* Blood Vessel

\* Epididymis

\* Heart

\* Intestine Small, Duodenum

\* Kidney

\* Lymph Node, Mesenteric

\* Parathyroid Gland

\* Prostate

\* Skin

\* Stomach, Forestomach

\* Thyroid Gland

\* Bone

\* Esophagus

\* Intestine Large, Cecum

\* Intestine Small, Ileum

\* Larynx

\* Mammary Gland

\* Peripheral Nerve, Sciatic

\* Salivary Glands

\* Spinal Cord, Cervical

\* Stomach, Glandular

\* Trachea

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

\* Eye

Note: no optic nerve in sections

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

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**ANIMAL ID:** 11

**TRT#:** 2

**DOSE:** 1.0 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:** MB439M-11

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** alpha-Thujone  
**CAS Number:** 546-80-5

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:52:36  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 12	<b>TRT#:</b> 2	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 17
	<b>DOSE:</b> 1.0 MG/KG	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB439M-12

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Bone

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**OBSERVATIONS**

Bone

Note: TGL2 - no corresponding lesion

Brain, NOS

Cerebrum

Developmental Malformation

Moderate

Cerebrum

Gliosis

Focal, Mild

[ Developmental Malformation TGLS = 1-1 ]

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 13

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 1.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB439M-13

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**OBSERVATIONS**

Liver

Hepatodiaphragmatic Nodule

Mild

[ Hepatodiaphragmatic Nodule TGLS = 1-6 ]

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** alpha-Thujone  
**CAS Number:** 546-80-5

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:52:36  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 14

**TRT#:** 2  
**DOSE:** 1.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17  
**HISTO:** MB439M-14

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 15

**TRT#:** 2

**DOSE:** 1.0 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:** MB439M-15

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

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**ANIMAL ID:** 21

**TRT#:** 3

**DOSE:** 3.0 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

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**ANIMAL ID:** 22

**TRT#:** 3

**DOSE:** 3.0 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** alpha-Thujone  
**CAS Number:** 546-80-5

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:52:36  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 23

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 3.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB439M-23

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**OBSERVATIONS**

Lymph Node

Mediastinal

Congestion

Focal, Minimal

Mediastinal

Hyperplasia

Moderate

[ Hyperplasia TGLS = 1-15 ]

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

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**ANIMAL ID:** 24

**TRT#:** 3

**DOSE:** 3.0 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

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**ANIMAL ID:** 25

**TRT#:** 3

**DOSE:** 3.0 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 31

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 10.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** alpha-Thujone  
**CAS Number:** 546-80-5

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:52:36  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 32

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 10.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 33

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 10.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 34

**TRT#:** 4

**DOSE:** 10.0 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 35

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 10.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

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**ANIMAL ID:** 41

**TRT#:** 5

**DOSE:** 30.0 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** alpha-Thujone  
**CAS Number:** 546-80-5

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:52:36  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 42

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 30.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 43

**TRT#:** 5

**DOSE:** 30.0 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 44

**TRT#:** 5

**DOSE:** 30.0 MG/KG

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

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**ANIMAL ID:** 45

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 30.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:52:36

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 51

TRT#: 6

SEX: Male

DAY ON TEST: 17

DOSE: 100 MG/KG

DISP: Terminal Sacrifice

HISTO: MB439M-51

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain, NOS	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skeletal Muscle	* Skin	* Spinal Cord, Cervical	* Spinal Cord, Lumbar
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Lung	Perivascular	Infiltration Cellular	Lymphocyte, Focal, Minimal
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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:52:36

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 52

TRT#: 6

SEX: Male

DAY ON TEST: 17

DOSE: 100 MG/KG

DISP: Terminal Sacrifice

HISTO: MB439M-52

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain, NOS	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skeletal Muscle
* Skin	* Spinal Cord, Cervical	* Spinal Cord, Lumbar	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

**MISSING**

* Lymph Node, Mandibular	* Urinary Bladder
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**INSUFFICIENT TISSUE**

\* Larynx

**OBSERVATIONS**

* Lung	Perivascular	Infiltration Cellular	Lymphocyte, Focal, Minimal
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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:52:36

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 53

TRT#: 6

SEX: Male

DAY ON TEST: 17

DOSE: 100 MG/KG

DISP: Terminal Sacrifice

HISTO: MB439M-53

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain, NOS	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Peripheral Nerve, Sciatic	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skeletal Muscle	* Skin
* Spinal Cord, Cervical	* Spinal Cord, Lumbar	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland
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**INSUFFICIENT TISSUE**

\* Larynx

**OBSERVATIONS**

* Pancreas	Infiltration Cellular	Lymphocyte, Focal, Minimal
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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

**ANIMAL ID:** 54

**TRT#:** 6

**SEX:** Male

**DAY ON TEST:** 17

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB439M-54

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain, NOS	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Peripheral Nerve, Sciatic	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skeletal Muscle	* Skin
* Spinal Cord, Cervical	* Spinal Cord, Lumbar	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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**INSUFFICIENT TISSUE**

\* Larynx

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:52:36

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 55

TRT#: 6

SEX: Male

DAY ON TEST: 17

DOSE: 100 MG/KG

DISP: Terminal Sacrifice

HISTO: MB439M-55

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain, NOS	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skeletal Muscle	* Skin	* Spinal Cord, Cervical	* Spinal Cord, Lumbar
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Larynx

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:52:36

First Dose M/F: NA / NA

Lab: MBA

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<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 7	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 17
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB439M-6

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain, NOS	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Pituitary Gland
* Salivary Glands	* Skeletal Muscle	* Skin	* Spinal Cord, Cervical
* Spinal Cord, Lumbar	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

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**MISSING**

\* Lymph Node, Mandibular

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**INSUFFICIENT TISSUE**

\* Larynx

---

**OBSERVATIONS**

* Lung	Perivascular	Infiltration Cellular	Lymphocyte, Focal, Minimal
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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:52:36

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 7

TRT#: 7

SEX: Female

DAY ON TEST: 17

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: MB439M-7

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                             |
|----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Bone                      |
| * Bone Marrow              | * Brain, NOS              | * Clitoral Gland            | * Esophagus                 |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Larynx                    |
| * Liver                    | * Lung                    | * Lymph Node, Mesenteric    | * Mammary Gland             |
| * Nose                     | * Ovary                   | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Pituitary Gland          | * Salivary Glands         | * Skeletal Muscle           | * Skin                      |
| * Spinal Cord, Cervical    | * Spinal Cord, Lumbar     | * Spleen                    | * Stomach, Forestomach      |
| * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             | * Trachea                   |
| * Urinary Bladder          | * Uterus                  |                             |                             |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |            |                       |                            |
|------------|-----------------------|----------------------------|
| * Pancreas | Infiltration Cellular | Lymphocyte, Focal, Minimal |
|------------|-----------------------|----------------------------|

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

**ANIMAL ID:** 8

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB439M-8

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain, NOS	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Peripheral Nerve, Sciatic	* Salivary Glands	* Skeletal Muscle	* Skin
* Spinal Cord, Cervical	* Spinal Cord, Lumbar	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Pituitary Gland

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:52:36

First Dose M/F: NA / NA

Lab: MBA

<b>ANIMAL ID:</b> 9	<b>TRT#:</b> 7 <b>DOSE:</b> VEHICLE CONTROL	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 17 <b>HISTO:</b> MB439M-9
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                             |
|----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Bone                      |
| * Bone Marrow              | * Brain, NOS              | * Clitoral Gland            | * Esophagus                 |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum    |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum    |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Larynx                    |
| * Liver                    | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                      |
| * Ovary                    | * Pancreas                | * Parathyroid Gland         | * Peripheral Nerve, Sciatic |
| * Pituitary Gland          | * Salivary Glands         | * Skeletal Muscle           | * Skin                      |
| * Spinal Cord, Cervical    | * Spinal Cord, Lumbar     | * Spleen                    | * Stomach, Forestomach      |
| * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             | * Trachea                   |
| * Urinary Bladder          | * Uterus                  |                             |                             |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |        |              |                       |                            |
|--------|--------------|-----------------------|----------------------------|
| * Lung | Perivascular | Infiltration Cellular | Lymphocyte, Focal, Minimal |
|--------|--------------|-----------------------|----------------------------|

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:52:36

First Dose M/F: NA / NA

Lab: MBA

**ANIMAL ID:** 10

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB439M-10

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Bone                   |
| * Bone Marrow              | * Brain, NOS              | * Clitoral Gland            | * Esophagus              |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Liver                  |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      | * Ovary                  |
| * Pancreas                 | * Parathyroid Gland       | * Peripheral Nerve, Sciatic | * Pituitary Gland        |
| * Salivary Glands          | * Skeletal Muscle         | * Skin                      | * Spinal Cord, Cervical  |
| * Spinal Cord, Lumbar      | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                   | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |
| * Uterus                   |                           |                             |                          |

**MISSING**

- \* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

- \* Larynx

**OBSERVATIONS**

- |        |              |                       |                            |
|--------|--------------|-----------------------|----------------------------|
| * Lung | Perivascular | Infiltration Cellular | Lymphocyte, Focal, Minimal |
|--------|--------------|-----------------------|----------------------------|

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

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**ANIMAL ID:** 16

**TRT#:** 8

**DOSE:** 1.0 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:** MB439M-16

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 17

**TRT#:** 8

**DOSE:** 1.0 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 18

**TRT#:** 8

**DOSE:** 1.0 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 19

**TRT#:** 8

**DOSE:** 1.0 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE



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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** alpha-Thujone  
**CAS Number:** 546-80-5

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:52:36  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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**ANIMAL ID:** 20

**TRT#:** 8

**DOSE:** 1.0 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 26

**TRT#:** 9

**DOSE:** 3.0 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 27

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 3.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB439M-27

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**MISSING**

Lymph Node

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**OBSERVATIONS**

Lymph Node

Note: TGL1 - no corresponding tissue. Histology lab could not find the mediastinal lymph node in wet tissues.

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 28

**TRT#:** 9

**DOSE:** 3.0 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 29

**TRT#:** 9

**DOSE:** 3.0 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 30

**TRT#:** 9

**DOSE:** 3.0 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

---

**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 36

**TRT#:** 10

**DOSE:** 10.0 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 37

**TRT#:** 10

**DOSE:** 10.0 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 38

**TRT#:** 10

**DOSE:** 10.0 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

---

**ANIMAL ID:** 39

**TRT#:** 10

**DOSE:** 10.0 MG/KG

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 17

**HISTO:**

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** alpha-Thujone  
**CAS Number:** 546-80-5

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:52:36  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 40

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 10.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION**

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

**ANIMAL ID:** 46

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 30.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB439M-46

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain, NOS	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Peripheral Nerve, Sciatic	* Pituitary Gland	* Salivary Glands	* Skeletal Muscle
* Skin	* Spinal Cord, Cervical	* Spinal Cord, Lumbar	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Lymph Node, Mandibular

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

**ANIMAL ID:** 47

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 30.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB439M-47

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain, NOS	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Peripheral Nerve, Sciatic
* Pituitary Gland	* Salivary Glands	* Skeletal Muscle	* Skin
* Spinal Cord, Cervical	* Spinal Cord, Lumbar	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Lung	Perivascular	Infiltration Cellular	Lymphocyte, Focal, Minimal
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:52:36  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 48

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 30.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB439M-48

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain, NOS	* Clitoral Gland	* Esophagus
* Eye	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Larynx	* Liver
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Peripheral Nerve, Sciatic	* Pituitary Gland
* Salivary Glands	* Skeletal Muscle	* Skin	* Spinal Cord, Cervical
* Spinal Cord, Lumbar	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

\* Eye

Note: no optic nerve in sections

\* Harderian Gland

Infiltration Cellular

Lymphocyte, Focal, Moderate

\* Lung

Perivascular

Infiltration Cellular

Lymphocyte, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:52:36

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 49

TRT#: 11

SEX: Female

DAY ON TEST: 17

DOSE: 30.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB439M-49

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain, NOS	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Peripheral Nerve, Sciatic	* Salivary Glands	* Skeletal Muscle	* Skin
* Spinal Cord, Cervical	* Spinal Cord, Lumbar	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**INSUFFICIENT TISSUE**

\* Pituitary Gland

**OBSERVATIONS**

\* Eye

Note: no optic nerve in sections submitted

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:52:36

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 50

TRT#: 11

SEX: Female

DAY ON TEST: 17

DOSE: 30.0 MG/KG

DISP: Terminal Sacrifice

HISTO: MB439M-50

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                           |                             |                          |
|-----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex            | * Adrenal Medulla         | * Blood Vessel              | * Bone                   |
| * Bone Marrow               | * Brain, NOS              | * Clitoral Gland            | * Esophagus              |
| * Eye                       | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon    | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum  | * Islets, Pancreatic      | * Kidney                    | * Larynx                 |
| * Liver                     | * Lung                    | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nose                      | * Ovary                   | * Pancreas                  | * Parathyroid Gland      |
| * Peripheral Nerve, Sciatic | * Pituitary Gland         | * Salivary Glands           | * Skeletal Muscle        |
| * Skin                      | * Spinal Cord, Cervical   | * Spinal Cord, Lumbar       | * Spleen                 |
| * Stomach, Forestomach      | * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          |
| * Trachea                   | * Urinary Bladder         |                             |                          |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- \* Uterus Hydrometra Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

**ANIMAL ID:** 56

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB439M-56

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Brain, NOS  
\* Harderian Gland  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Mammary Gland  
\* Parathyroid Gland  
\* Skeletal Muscle  
\* Spleen  
\* Thyroid Gland

\* Blood Vessel  
\* Clitoral Gland  
\* Heart  
\* Intestine Small, Duodenum  
\* Liver  
\* Nose  
\* Peripheral Nerve, Sciatic  
\* Skin  
\* Stomach, Forestomach  
\* Trachea

\* Bone  
\* Esophagus  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Ovary  
\* Pituitary Gland  
\* Spinal Cord, Cervical  
\* Stomach, Glandular  
\* Urinary Bladder

\* Bone Marrow  
\* Eye  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Salivary Glands  
\* Spinal Cord, Lumbar  
\* Thymus  
\* Uterus

**MISSING**

\* Adrenal Medulla

\* Larynx

\* Lymph Node, Mandibular

**OBSERVATIONS**

\* Kidney

Renal Tubule

Degeneration

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:52:36  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 57	<b>TRT#:</b> 12	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 15
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> MB439M-57

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain, NOS	* Clitoral Gland	* Esophagus
* Eye	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Peripheral Nerve, Sciatic	* Pituitary Gland	* Salivary Glands
* Skeletal Muscle	* Skin	* Spinal Cord, Cervical	* Spinal Cord, Lumbar
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

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**MISSING**

* Lymph Node, Mandibular	* Parathyroid Gland
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**INSUFFICIENT TISSUE**

\* Larynx

---

**OBSERVATIONS**

* Harderian Gland	Infiltration Cellular	Lymphocyte, Focal, Mild
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 99021-01

**Test Type:** 14-DAY

**Route:** GAVAGE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** alpha-Thujone

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

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

**Time Report Requested:** 12:52:36

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

**Lab:** MBA

**ANIMAL ID:** 58

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 17

**DOSE:** 100 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** MB439M-58

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain, NOS	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Peripheral Nerve, Sciatic
* Pituitary Gland	* Salivary Glands	* Skeletal Muscle	* Skin
* Spinal Cord, Cervical	* Spinal Cord, Lumbar	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Lung	Alveolus	Hyperplasia	Histiocytic, Focal, Minimal
* Thymus		Hemorrhage	Focal, Minimal

[ Hemorrhage TGLS = 1-2 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 99021-01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: alpha-Thujone

CAS Number: 546-80-5

Date Report Requested: 10/15/2014

Time Report Requested: 12:52:36

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 59

TRT#: 12

SEX: Female

DAY ON TEST: 8

DOSE: 100 MG/KG

DISP: Moribund Sacrifice

HISTO: MB439M-59

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Harderian Gland  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lung  
\* Ovary  
\* Salivary Glands  
\* Spinal Cord, Lumbar  
\* Thymus  
\* Uterus

\* Adrenal Medulla  
\* Clitoral Gland  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Skeletal Muscle  
\* Spleen  
\* Thyroid Gland

\* Blood Vessel  
\* Esophagus  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Larynx  
\* Mammary Gland  
\* Peripheral Nerve, Sciatic  
\* Skin  
\* Stomach, Forestomach  
\* Trachea

\* Bone  
\* Eye  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Liver  
\* Nose  
\* Pituitary Gland  
\* Spinal Cord, Cervical  
\* Stomach, Glandular  
\* Urinary Bladder

**MISSING**

\* Lymph Node, Mandibular

\* Parathyroid Gland

**OBSERVATIONS**

\* Brain, NOS

Chor Plexus

Hemorrhage

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** alpha-Thujone  
**CAS Number:** 546-80-5

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:52:36  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 60	<b>TRT#:</b> 12	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 8
	<b>DOSE:</b> 100 MG/KG	<b>DISP:</b> Natural Death	<b>HISTO:</b> MB439M-60

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain, NOS	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Rectum
* Islets, Pancreatic	* Kidney	* Larynx	* Liver
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Peripheral Nerve, Sciatic	* Pituitary Gland	* Salivary Glands
* Skeletal Muscle	* Skin	* Spinal Cord, Cervical	* Spinal Cord, Lumbar
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

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**MISSING**

* Lymph Node, Mandibular	* Parathyroid Gland
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**AUTO PRECLUDES DIAG.**

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Nose	* Stomach, Glandular	

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**PRIMARY CAUSE OF DEATH**

-

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

\* PROTOCOL REQUIRED TISSUE