

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

F#2

**C Number:** C99037B  
**Lock Date:** 11/20/2006  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.2.0

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Date Report Requested: 08/06/2010  
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First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 1

TMT: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110045

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant
* Bone Marrow		Lymphoma Malignant
* Heart		Lymphoma Malignant
* Kidney		Lymphoma Malignant
* Liver		Hemangiosarcoma
		Lymphoma Malignant
	[ Hemangiosarcoma TGLs = 5-21 ]	
	[ Lymphoma Malignant TGLs = 4-6 ]	
* Lung		Lymphoma Malignant
Lymph Node	Mediastinal	Lymphoma Malignant
	Pancreatic	Lymphoma Malignant
	Renal	Lymphoma Malignant
	Iliac	Lymphoma Malignant
		Lymphoma Malignant
	[ Lymphoma Malignant TGLs = 6-3 ]	
	[ Lymphoma Malignant TGLs = 3-7 ]	
	[ Lymphoma Malignant TGLs = 8-22 ]	
	[ Lymphoma Malignant TGLs = 9-23 ]	
	[ Lymphoma Malignant TGLs = 10-24 ]	
* Lymph Node, Mandibular		Lymphoma Malignant
* Lymph Node, Mesenteric		Lymphoma Malignant
	[ Lymphoma Malignant TGLs = 7-5 ]	

\* PROTOCOL REQUIRED TISSUE

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ANIMAL NUM: 1

TMT: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110045

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ORGAN AND ACCOUNTABLE SITE STATUS

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* Nose	Lymphoma Malignant
* Pancreas	Lymphoma Malignant
* Preputial Gland	Lymphoma Malignant
* Prostate	Lymphoma Malignant
* Salivary Glands	Lymphoma Malignant
* Spleen	Lymphoma Malignant
[ Lymphoma Malignant TGLs = 2-6 ]	
* Thymus	Lymphoma Malignant

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First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 2

TMT: 1  
DOSE: 0 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 649  
HISTO: 110046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Kidney	Cyst	Moderate
* Liver	Hepatocellular Carcinoma	
	Necrosis	Focal, Moderate
[ Hepatocellular Carcinoma TGLs = 1-21 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular	Erosion	Mild
* Urin Bladder		

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 3

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 568  
 HISTO: 110047

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Bone Marrow              |
| * Brain                   | * 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      | * Liver                     | * Lymph Node, Mandibular | * Mammary Gland            |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Preputial Gland         | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testes                  | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

AUTO PRECLUDES DIAG.

- \* Gallbladder

OBSERVATIONS

- |                                  |                  |  |                                    |
|----------------------------------|------------------|--|------------------------------------|
| * Kidney                         |                  | Alveolar/Bronchiolar Carcinoma<br>Metaplasia | Metastatic (Lung)<br>Osseous, Mild |
| [ Alveolar/Bronchiolar Carcinoma | TGLs = 4-21 ]    |  |                                    |
| * Lung                           |                  | Alveolar/Bronchiolar Carcinoma               |                                    |
| [ Alveolar/Bronchiolar Carcinoma | TGLs = 2-2,3-2 ] |  |                                    |
| Lymph Node                       | Thoracic         | Alveolar/Bronchiolar Carcinoma               | Metastatic (Lung)                  |
| [ Alveolar/Bronchiolar Carcinoma | TGLs = 6-22 ]    |  |                                    |
| * Lymph Node, Mesenteric         |                  | Hemorrhage                                   | Minimal                            |
| * Urin Bladder                   |                  |  |                                    |

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 4

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110048

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Pancreas                  | Penis                    | * Pituitary Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

MISSING

- |                     |          |
|---------------------|----------|
| * Parathyroid Gland | * Thymus |
|---------------------|----------|

OBSERVATIONS

- |                   |  |                           |                   |
|-------------------|--|---------------------------|-------------------|
| * Adrenal Cortex  |  | Hypertrophy               | Focal, Minimal    |
| * Kidney          |  | Nephropathy               | Minimal           |
| * Liver           | Hepatocyte                               | Mixed Cell Focus          |                   |
|                   |  | Vacuolization Cytoplasmic | Moderate          |
|                   | [ Mixed Cell Focus TGLs = 1-6 ]          |                           |                   |
|                   | [ Vacuolization Cytoplasmic TGLs = 1-6 ] |                           |                   |
| * Lung            |  | Hemorrhage                | Mild              |
| * Preputial Gland |  | Inflammation              | Chronic, Moderate |

Note: THE CHRONIC INFLAMMATION CONSISTS OF A FOCUS OF CHOLESTEROL CLEFTS, HISTIOCYTES, AND LYMPHOCYTES.

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 Lab: SRI

ANIMAL NUM: 5

TMT: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Esophagus			
Note: THE ESOPHAGUS IS ON SLIDE 4.			
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[ Mixed Cell Focus TGLs = 1-6 ]		
	[ Vacuolization Cytoplasmic TGLs = 1-6 ]		
* Preputial Gland		Cyst	Moderate

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 Lab: SRI

ANIMAL NUM: 6

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110050

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	Multiple
	Hepatocyte	Mixed Cell Focus	
Note: THE BASOPHILIC FOCUS IS ON SLIDE 22.		Vacuolization Cytoplasmic	Mild
[ Hepatocellular Adenoma TGLs = 2-22 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLs = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

\* PROTOCOL REQUIRED TISSUE



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 Lab: SRI

ANIMAL NUM: 7

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110051

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea

OBSERVATIONS

* Bone Marrow	Lymphoma Malignant	
* Kidney	Nephropathy	Minimal
* Liver	Clear Cell Focus	
	Hemangiosarcoma	
	Hepatocellular Adenoma	Multiple
	Necrosis	Focal, Marked
	Hepatocyte	Moderate
	Vacuolization Cytoplasmic	
Note: CLEAR CELL FOCUS IS ON SLIDE 22.		
[ Hemangiosarcoma TGLs = 3-22 ]		
[ Hepatocellular Adenoma TGLs = 1-21,2-24 ]		
[ Necrosis TGLs = 4-23 ]		
* Spleen	Hematopoietic Cell Proliferation	Mild
* Urinary Bladder	Infiltration Cellular	Lymphocyte, Mild

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 Lab: SRI

ANIMAL NUM: 8

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110052

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Epididymis              | * Esophagus                 | * Eye                    |
| * Gallbladder              | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      | * Pancreas               |
| * Parathyroid Gland        | * Prostate                | * Salivary Glands           | * Seminal Vesicle        |
| * Skin                     | * Spleen                  | * Stomach, Glandular        | * Testes                 |
| * Thymus                   | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

OBSERVATIONS

- |                        |  |                           |                  |
|------------------------|--|---------------------------|------------------|
| * Kidney               |  | Cyst                      | Moderate         |
|                        |  | Nephropathy               | Minimal          |
| * Liver                |  | Hepatocellular Adenoma    | Multiple         |
|                        |  | Hepatocellular Carcinoma  |                  |
|                        | Hepatocyte                                     | Vacuolization Cytoplasmic | Moderate         |
|                        | [ Hepatocellular Adenoma TGLs = 2-6,3-6,4-22 ] |                           |                  |
|                        | [ Hepatocellular Carcinoma TGLs = 1-21 ]       |                           |                  |
| * Pituitary Gland      | Pars Distalis                                  | Cyst                      | Moderate         |
| * Preputial Gland      |  | Cyst                      | Moderate         |
|                        |  | Inflammation              | Chronic, Mild    |
| * Stomach, Forestomach | Epithelium                                     | Hyperplasia               | Mild             |
|                        |  | Inflammation              | Chronic, Minimal |

\* PROTOCOL REQUIRED TISSUE

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 Lab: SRI

ANIMAL NUM: 9

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110053

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Brain                   | * Epididymis                |
| * Esophagus              | * Eye                      | * Gallbladder             | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Nose                     | * Pancreas                | * Parathyroid Gland         |
| * Pituitary Gland        | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      | * Testes                    |
| * Trachea                | * Urinary Bladder          |                           |                             |

OBSERVATIONS

- |                                       |          |                                  |                    |
|---------------------------------------|----------|----------------------------------|--------------------|
| * Adrenal Cortex                      |          | Hypertrophy                      | Focal, Minimal     |
| * Bone Marrow                         |          | Hyperplasia                      | Marked             |
| * Harderian Gland                     |          | Carcinoma                        |                    |
| [ Carcinoma TGLs = 3-12 ]             |          |                                  |                    |
| * Kidney                              |          | Nephropathy                      | Minimal            |
| * Liver                               |          | Hepatocellular Adenoma           | Multiple           |
| [ Hepatocellular Adenoma TGLs = 2-6 ] |          |                                  |                    |
| * Lung                                |          | Alveolar/Bronchiolar Adenoma     |                    |
| * Lymph Node, Mandibular              |          | Hyperplasia                      | Lymphoid, Moderate |
| [ Hyperplasia TGLs = 1-8 ]            |          |                                  |                    |
| * Preputial Gland                     |          | Cyst                             | Moderate           |
|                                       |          | Inflammation                     | Chronic, Marked    |
| * Spleen                              |          | Hematopoietic Cell Proliferation | Moderate           |
| * Thymus                              |          | Cyst                             | Moderate           |
| * Thyroid Gland                       | Follicle | Degeneration                     | Focal, Mild        |

\* PROTOCOL REQUIRED TISSUE

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 Lab: SRI

ANIMAL NUM: 10

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Bone Marrow		Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Infarct	Moderate
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatoblastoma	
		Hepatocellular Adenoma	Multiple
		Histiocytic Sarcoma	
		Necrosis	Focal, Minimal
Note: CLEAR CELL FOCI ARE PRESENT ON SLIDES 6, 22, AND 24.			
Note: THE HISTIOCYTIC SARCOMA APPEARS TO BE IN AN EARLY STAGE.			
		[ Clear Cell Focus TGLs = 5-24 ]	
		[ Hepatoblastoma TGLs = 2-21 ]	
		[ Hepatocellular Adenoma TGLs = 3-22,4-23 ]	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Nose		Inflammation	Chronic, Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Cyst	Moderate
		[ Cyst TGLs = 1-8 ]	
* Thymus		Hyperplasia	Lymphoid, Moderate

\* PROTOCOL REQUIRED TISSUE

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**Lab:** SRI

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**ANIMAL NUM:** 10

**TMT:** 1  
**DOSE:** 0 MG/KG

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

**DAY ON TEST:** 731  
**HISTO:** 110054

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

Follicle

Degeneration

Focal, Mild

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 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 11

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110055

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone		Hyperostosis	Moderate
	[ Hyperostosis TGLs = 6-24 ]		
* Bone Marrow		Hyperplasia	Mild
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[ Clear Cell Focus TGLs = 5-23 ]		
	[ Hepatocellular Adenoma TGLs = 2-6,4-22 ]		
	[ Mixed Cell Focus TGLs = 3-21 ]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
	[ Hemorrhage TGLs = 1-5 ]		
* Nose		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 12

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Moribund Sacrifice

DAY ON TEST: 498  
 HISTO: 110056

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Brain                   | * Epididymis                |
| * Esophagus              | * Eye                      | * Gallbladder             | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney                  | * Lung                      |
| * Lymph Node, Mandibular | * Mammary Gland            | * Nose                    | * Pancreas                  |
| * Pituitary Gland        | * Preputial Gland          | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Stomach, Glandular       | * Testes                  | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

MISSING

- |                     |            |
|---------------------|------------|
| * Parathyroid Gland | * Prostate |
|---------------------|------------|

OBSERVATIONS

- |                                   |              |                    |                |
|-----------------------------------|--------------|--------------------|----------------|
| * Adrenal Cortex                  |              | Hypertrophy        | Focal, Minimal |
| * Bone Marrow                     |              | Hyperplasia        | Mild           |
| * Heart                           |              | Lymphoma Malignant |                |
| * Islets, Pancreatic              |              | Adenoma            |                |
| * Liver                           |              | Clear Cell Focus   |                |
| [ Clear Cell Focus TGLs = 3-23 ]  |              |                    |                |
| Lymph Node                        | Mediastinal  | Lymphoma Malignant |                |
| [ Lymphoma Malignant TGLs = 5-3 ] |              |                    |                |
| * Lymph Node, Mesenteric          |              | Hemorrhage         | Moderate       |
| [ Hemorrhage TGLs = 2-5 ]         |              |                    |                |
| Mesentery                         | Fat          | Necrosis           | Mild           |
| [ Necrosis TGLs = 6-21,7-22 ]     |              |                    |                |
| * Spleen                          | Lymph Follic | Atrophy            | Mild           |
| * Stomach, Forestomach            | Epithelium   | Hyperplasia        | Mild           |
| * Thymus                          |              | Lymphoma Malignant |                |
| * Thyroid Gland                   | Follicle     | Degeneration       | Focal, Minimal |

PRIMARY CAUSE OF DEATH - Lymph Node Mediastinal Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 13

TMT: 1  
DOSE: 0 MG/KG

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 730  
HISTO: 110057

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Islets, Pancreatic	Hyperplasia	Minimal
* Kidney	Infiltration Cellular	Lymphocyte, Moderate
	Nephropathy	Moderate
* Liver	Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLs = 1-21 ]	
* Spleen	Hematopoietic Cell Proliferation	Moderate
* Urinary Bladder	Infiltration Cellular	Lymphocyte, Mild



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 14

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110058

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLs = 1-21 ]		
* Stomach, Glandular	Epithelium	Hyperplasia	Mild
	[ Hyperplasia TGLs = 2-22 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 15

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110059

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Kidney                  | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

INSUFFICIENT TISSUE

- \* Lymph Node, Mandibular

OBSERVATIONS

- |                      |                |                              |                |
|----------------------|----------------|------------------------------|----------------|
| * Adrenal Cortex     |                | Hypertrophy                  | Focal, Minimal |
| * Islets, Pancreatic |                | Hyperplasia                  | Minimal        |
| * Liver              |                | Mixed Cell Focus             |                |
|                      | Hepatocyte     | Vacuolization Cytoplasmic    | Moderate       |
| * Lung               |                | Alveolar/Bronchiolar Adenoma |                |
|                      | Alveolar Epith | Hyperplasia                  | Mild           |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 17

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110061

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Bone Marrow              | * Brain                   |
| * Epididymis                | * Esophagus              | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung                    |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    |
| * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          | * Preputial Gland         |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle          | * Skin                    |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Testes                  |
| * Thymus                    | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

OBSERVATIONS

- |                      |   |                           |             |
|----------------------|---|---------------------------|-------------|
| * Adrenal Cortex     | Subcapsular   | Adenoma                   |             |
|                      |   | Hyperplasia               | Focal, Mild |
| * Harderian Gland    |   | Adenoma                   |             |
| * Islets, Pancreatic |   | Hyperplasia               | Mild        |
| * Kidney             |   | Nephropathy               | Minimal     |
| * Liver              |   | Clear Cell Focus          |             |
|                      |   | Hepatocellular Adenoma    | Multiple    |
|                      |   | Mixed Cell Focus          |             |
|                      | Hepatocyte  | Vacuolization Cytoplasmic | Moderate    |
|                      | [ Clear Cell Focus TGLs = 3-23,4-24,5-25,6-26,7-6 ] |                           |             |
|                      | [ Hepatocellular Adenoma TGLs = 1-21 ]              |                           |             |
|                      | [ Mixed Cell Focus TGLs = 2-22 ]                    |                           |             |

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 18

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 603  
 HISTO: 110062

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                           |                             |                          |
|--------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla        | * Bone                    | * Brain                     | * Epididymis             |
| * Esophagus              | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Islets, Pancreatic     | * Lymph Node, Mandibular  | * Mammary Gland             | * Nose                   |
| * Pancreas               | * Parathyroid Gland       | * Pituitary Gland           | * Prostate               |
| * Salivary Glands        | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular     | * Testes                  | * Thymus                    | * Thyroid Gland          |
| * Trachea                | * Urinary Bladder         |                             |                          |

AUTO PRECLUDES DIAG.

- |               |                            |
|---------------|----------------------------|
| * Gallbladder | * Intestine Small, Jejunum |
|---------------|----------------------------|

OBSERVATIONS

- |  |                                  |                    |
|--|----------------------------------|--------------------|
| * Adrenal Cortex   | Hypertrophy                      | Focal, Mild        |
| * Bone Marrow  | Hyperplasia                      | Moderate           |
| * Heart  | Thrombosis                       | Marked             |
| * Kidney   | Nephropathy                      | Moderate           |
| * Liver  | Hepatocellular Carcinoma         |                    |
|  | Necrosis                         | Diffuse, Mild      |
| [ Hepatocellular Carcinoma TGLs = 3-21 ]                         |                                  |                    |
| * Lung   | Hepatocellular Carcinoma         | Metastatic (Liver) |
| Note: METASTATIC HEPATOCELLULAR CARCINOMA IS ON SLIDES 2 AND 22. |                                  |                    |
| [ Hepatocellular Carcinoma TGLs = 4-22 ]                         |                                  |                    |
| * Lymph Node, Mesenteric   | Hemorrhage                       | Marked             |
| * Preputial Gland  | Cyst                             | Moderate           |
| [ Cyst TGLs = 1-8 ]  |                                  |                    |
| * Prostate   |                                  |                    |
| Note: A PORTION OF THE PROSTATE IS ON SLIDE 3.                   |                                  |                    |
| * Spleen   | Hematopoietic Cell Proliferation | Moderate           |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma  
 CONTRIBUTORY CAUSE OF DEATH - Heart Thrombosis

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 19

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110063

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLs = 1-21 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLs = 3-22 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Inflammation	Chronic, Moderate
	[ Hyperplasia TGLs = 4-23 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 20

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110064

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Spleen                  | * Stomach, Glandular        | * Testes                 | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

**MISSING**

- \* Pituitary Gland

**OBSERVATIONS**

- |                        |                                  |                           |                   |
|------------------------|----------------------------------|---------------------------|-------------------|
| * Adrenal Cortex       | Subcapsular                      | Adenoma                   |                   |
|                        |                                  | Hypertrophy               | Focal, Minimal    |
| * Kidney               |                                  | Nephropathy               | Minimal           |
| * Liver                |                                  | Clear Cell Focus          |                   |
|                        | Hepatocyte                       | Mixed Cell Focus          |                   |
|                        | [ Mixed Cell Focus TGLs = 2-22 ] | Vacuolization Cytoplasmic | Mild              |
| * Preputial Gland      |                                  | Cyst                      | Moderate          |
|                        |                                  | Inflammation              | Chronic, Moderate |
| Skeletal Muscle        |                                  | Hemangiosarcoma           |                   |
|                        | [ Hemangiosarcoma TGLs = 1-21 ]  |                           |                   |
| * Stomach, Forestomach | Epithelium                       | Hyperplasia               | Minimal           |
|                        |                                  | Inflammation              | Chronic, Minimal  |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 21

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110065

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Marked Focal, Minimal
* Bone Marrow		Lymphoma Malignant	
* Harderian Gland		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma Mixed Cell Focus	
	[ Mixed Cell Focus TGLs = 3-21 ]		
* Lung	Alveolar Epith	Alveolar/Bronchiolar Carcinoma Hyperplasia	Minimal
	[ Alveolar/Bronchiolar Carcinoma TGLs = 2-2 ]		
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Lymphoma Malignant	
	Note: THE SPLEEN LYMPHOMA IS ATYPICAL (DIFFUSE INVOLVEMENT OF THE RED PULP). [ Lymphoma Malignant TGLs = 1-6 ]		
* Thymus		Atrophy	Mild
* Urinary Bladder		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 22

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Moribund Sacrifice

DAY ON TEST: 631  
 HISTO: 110066

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Intestine Small, Duodenum

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Kidney		Cyst	Moderate
		Nephropathy	Moderate
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLs = 3-24 ]		
	[ Hepatocellular Carcinoma TGLs = 4-21 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	[ Hepatocellular Carcinoma TGLs = 6-2,7-2,8-25 ]		
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Ulcer	Mild
* Thymus		Hepatocellular Carcinoma	Metastatic (Liver)
Tissue NOS		Hepatocellular Carcinoma	Metastatic (Liver)
Note: TISSUE NOS INVOLVES MEDIASTINUM AND THORACIC CAVITY.			
	[ Hepatocellular Carcinoma TGLs = 5-22,9-23 ]		

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

Animal Note: SOME OF THE METASTATIC HEPATOCELLULAR CARCINOMA IS MARKEDLY ANAPLASTIC (MESENCHYMAL OR VACUOLATED CELLS).

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 23

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110067

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                    | * Brain                     |
| * Epididymis             | * Esophagus                | * Gallbladder             | * 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       | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Testes                   | * Thymus                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

OBSERVATIONS

- |                          |                                      |                                  |                       |
|--------------------------|--------------------------------------|----------------------------------|-----------------------|
| * Bone Marrow            |                                      | Hyperplasia                      | Moderate              |
| * Eye                    |                                      | Atrophy                          | Marked                |
|                          | [ Atrophy TGLs = 5-21 ]              |                                  |                       |
| * Harderian Gland        |                                      | Adenoma                          |                       |
|                          | [ Adenoma TGLs = 4-12 ]              |                                  |                       |
| * Lymph Node, Mandibular |                                      | Infiltration Cellular            | Plasma Cell, Moderate |
|                          | [ Infiltration Cellular TGLs = 3-8 ] |                                  |                       |
| * Pituitary Gland        | Pars Distalis                        | Cyst                             | Moderate              |
| * Preputial Gland        |                                      | Cyst                             | Moderate              |
|                          | [ Cyst TGLs = 2-8 ]                  |                                  |                       |
| * Spleen                 |                                      | Hematopoietic Cell Proliferation | Mild                  |

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 24

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110068

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Esophagus			
Note: ESOPHAGUS IS ON SLIDE 4.			
* Kidney		Infarct	Mild
		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	Multiple
Note: A PORTION OF HEPATOCELLULAR CARCINOMA IS ON SLIDE 6.			
[ Hepatocellular Carcinoma TGLs = 1-21,2-22 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLs = 3-2 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 25

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110069

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 1-21 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 26

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110070

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Brain                    | * Epididymis              |
| * Esophagus                 | * Eye                    | * Gallbladder              | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Nose                      | * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         |
| * Preputial Gland           | * Prostate               | * Salivary Glands          | * Seminal Vesicle         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Testes                  |
| * Thymus                    | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

OBSERVATIONS

- |                  |  |                                  |               |
|------------------|--|----------------------------------|---------------|
| * Adrenal Cortex |  | Hyperplasia                      | Focal, Mild   |
| * Bone Marrow    |  | Hyperplasia                      | Mild          |
| * Kidney         |  | Nephropathy                      | Minimal       |
| * Liver          |  | Hepatocellular Adenoma           |               |
|                  |  | Hepatocellular Carcinoma         |               |
|                  |  | Necrosis                         | Focal, Marked |
|                  | [ Hepatocellular Carcinoma TGLs = 1-21 ] |                                  |               |
|                  | [ Necrosis TGLs = 2-22 ]                 |                                  |               |
| * Spleen         |  | Hematopoietic Cell Proliferation | Mild          |

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 27

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110071

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Harderian Gland		Adenoma	
		Hyperplasia	Focal, Mild
Note: HARDERIAN GLAND ADENOMA APPEARS TO BE IN AN EARLY STAGE.			
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[ Hepatocellular Adenoma TGLs = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular		Cyst	Moderate

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 28

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110072

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

OBSERVATIONS

- |                   |  |                |
|-------------------|--|----------------|
| * Adrenal Cortex  | Hypertrophy                                  | Focal, Minimal |
| * Kidney          | Nephropathy                                  | Minimal        |
| * Liver           | Hepatocellular Adenoma                       |                |
|                   | Mixed Cell Focus                             |                |
|                   | [ Hepatocellular Adenoma TGLs = 2-22 ]       |                |
|                   | [ Mixed Cell Focus TGLs = 1-21 ]             |                |
| * Lung            | Alveolar/Bronchiolar Adenoma                 |                |
|                   | [ Alveolar/Bronchiolar Adenoma TGLs = 3-23 ] |                |
| * Preputial Gland | Cyst   | Moderate       |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 29

TMT: 1  
DOSE: 0 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 604  
HISTO: 110073

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* 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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Thymus

AUTO PRECLUDES DIAG.

\* Gallbladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Moderate
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLs = 1-21 ]		
* Spleen	Lymph Follic	Atrophy	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 30

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110074

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[ Clear Cell Focus TGLs = 1-21 ]		
* Nose		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 31

TMT: 1  
DOSE: 0 MG/KG

SEX: Male  
DISP: Moribund Sacrifice

DAY ON TEST: 677  
HISTO: 110075

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Carcinoma	
	[ Carcinoma TGLs = 1-21 ]		
* Kidney		Nephropathy	Mild
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Hemorrhage	Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

PRIMARY CAUSE OF DEATH - Harderian Gland Carcinoma

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 32

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110076

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hypertrophy	Focal, Mild
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Cyst	Moderate
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
Note: CLEAR CELL FOCUS IS ON SLIDE 21.			
[ Hepatocellular Adenoma TGLs = 1-6,2-21,3-22, 4-23 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Thyroid Gland	Follicular Cel	Carcinoma	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 33

TMT: 1  
DOSE: 0 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 598  
HISTO: 110077

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Preputial Gland                      \* Thymus

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

**INSUFFICIENT TISSUE**

\* Intestine Large, Cecum

**OBSERVATIONS**

* Kidney	Nephropathy	Marked
* Liver	Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLs = 3-21 ]		
* Lymph Node, Mandibular	Atrophy	Moderate
* Lymph Node, Mesenteric	Atrophy	Moderate
	Hemorrhage	Mild

PRIMARY CAUSE OF DEATH                      - Liver    Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 34

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110078

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Marked
* Kidney		Cyst	Mild
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	Hepatocyte	Mixed Cell Focus	
	[ Hepatocellular Adenoma TGLs = 1-21,2-6 ]	Vacuolization Cytoplasmic	Moderate
	[ Mixed Cell Focus TGLs = 2-6 ]		
	[ Vacuolization Cytoplasmic TGLs = 2-6 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLs = 3-23 ]		
* Nose	Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
Tongue		Fibroma	
	[ Fibroma TGLs = 4-22 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 35

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110079

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
	Subcapsular	Hyperplasia	Mild
		Hypertrophy	Focal, Minimal
* Islets, Pancreatic		Adenoma	
		Hyperplasia	Marked
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[ Basophilic Focus TGLs = 2-6 ]		
	[ Clear Cell Focus TGLs = 2-6 ]		
	[ Hepatocellular Adenoma TGLs = 1-22,2-6 ]		
	[ Hepatocellular Carcinoma TGLs = 3-21 ]		
	[ Vacuolization Cytoplasmic TGLs = 2-6 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLs = 4-23 ]		
* Nose		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 35

**TMT:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 110079

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

Follicle

Degeneration

Focal, Minimal

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TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 36

TMT: 1  
DOSE: 0 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 581  
HISTO: 110080

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                          |                           |                          |
|----------------------------|--------------------------|---------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla        | * Bone                    | * Brain                  |
| * Epididymis               | * Esophagus              | * Eye                     | * Harderian Gland        |
| * Heart                    | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic     | * Kidney                  | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland          | * Nose                    | * Pancreas               |
| * Parathyroid Gland        | * Pituitary Gland        | * Prostate                | * Salivary Glands        |
| * Seminal Vesicle          | * Skin                   | * Stomach, Forestomach    | * Stomach, Glandular     |
| * Testes                   | * Thymus                 | * Thyroid Gland           | * Trachea                |
| * Urinary Bladder          |                          |                           |                          |

AUTO PRECLUDES DIAG.

- |               |                          |                             |
|---------------|--------------------------|-----------------------------|
| * Gallbladder | * Intestine Large, Cecum | * Intestine Small, Duodenum |
|---------------|--------------------------|-----------------------------|

OBSERVATIONS

- |                   |   |                                  |                    |
|-------------------|---|----------------------------------|--------------------|
| * Bone Marrow     |   | Hyperplasia                      | Moderate           |
| * Liver           |   | Hepatocellular Carcinoma         |                    |
|                   | [ Hepatocellular Carcinoma TGLs = 3-21 ]        |                                  |                    |
| * Lung            |   | Hepatocellular Carcinoma         | Metastatic (Liver) |
|                   | [ Hepatocellular Carcinoma TGLs = 5-2,6-2 ]     |                                  |                    |
| * Preputial Gland |   | Inflammation                     | Chronic, Moderate  |
| * Spleen          |   | Hematopoietic Cell Proliferation | Moderate           |
|                   | [ Hematopoietic Cell Proliferation TGLs = 2-6 ] |                                  |                    |
| * Urin Bladder    |   |                                  |                    |

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 37

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110081

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Bone                   | * Brain                    | * Epididymis              |
| * Esophagus                 | * Eye                    | * Gallbladder              | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          | * Prostate                |
| * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Testes                    | * Trachea                | * Urinary Bladder          |                           |

OBSERVATIONS

- |  |          |                                  |                      |
|--|----------|----------------------------------|----------------------|
| * Adrenal Medulla  |          | Pheochromocytoma Malignant       |                      |
| * Bone Marrow  |          | Hyperplasia                      | Moderate             |
| * Esophagus  |          |                                  |                      |
| Note: ESOPHAGUS IS ON SLIDE 4.   |          |                                  |                      |
| * Kidney   |          | Nephropathy                      | Minimal              |
| * Liver  |          | Hepatocellular Carcinoma         |                      |
|  |          | Inflammation                     | Chronic Active, Mild |
| Note: HEMOSIDERIN PIGMENT WITHIN MANY OF THE INFILTRATING HISTIOCYTIC CELLS. |          |                                  |                      |
| [ Hepatocellular Carcinoma TGLs = 1-21 ]                                     |          |                                  |                      |
| * Lung   |          | Hepatocellular Carcinoma         | Metastatic (Liver)   |
| * Nose   |          | Inflammation                     | Chronic, Minimal     |
| * Salivary Glands  |          | Infiltration Cellular            | Lymphocyte, Moderate |
| * Spleen   |          | Hematopoietic Cell Proliferation | Marked               |
| * Thymus   |          | Atrophy                          | Mild                 |
| * Thyroid Gland  | Follicle | Degeneration                     | Focal, Moderate      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 38

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110082

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland	* Pituitary Gland
---------------------	-------------------

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Mineralization	Minimal
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLs = 3-22 ]		
* Lymph Node, Mesenteric		Plasma Cell Tumor Malignant	
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Mild
Skeletal Muscle		Hemangiosarcoma	
	[ Hemangiosarcoma TGLs = 1-21 ]		
* Spleen		Hemangiosarcoma	
	[ Hemangiosarcoma TGLs = 2-6 ]	Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLs = 2-6 ]		
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 39

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110083

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Gallbladder

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Bone	Cranium	Osteopetrosis	Mild
[ Osteopetrosis TGLs = 5-24 ]			
* Bone Marrow		Hyperplasia	Mild
* Islets, Pancreatic		Adenoma	
* Liver		Hepatoblastoma	
	Hepatocyte	Hepatocellular Adenoma	Multiple
[ Hepatoblastoma TGLs = 2-21 ]		Vacuolization Cytoplasmic	Marked
[ Hepatocellular Adenoma TGLs = 3-22, 4-23 ]			
* Lymph Node, Mesenteric		Angiectasis	Mild
		Hematopoietic Cell Proliferation	Mild

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 40

TMT: 1  
DOSE: 0 MG/KG

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 731  
HISTO: 110084

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Minimal
* Bone	Osteoma	
[ Osteoma TGLs = 7-25 ]		
* Kidney	Nephropathy	Minimal
* Liver	Clear Cell Focus	
	Hepatocellular Adenoma	Multiple
[ Clear Cell Focus TGLs = 1-6 ]		
[ Hepatocellular Adenoma TGLs = 2-21,3-22,4-6,5-23,6-24 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 41

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110085

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Gallbladder	* Parathyroid Gland
---------------	---------------------

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Harderian Gland		Adenoma	
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	
		Hepatoblastoma	Multiple
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
		[ Hepatoblastoma TGLs = 3-23,4-24,6-26 ]	
		[ Hepatocellular Adenoma TGLs = 2-22 ]	
		[ Hepatocellular Carcinoma TGLs = 1-21,5-25 ]	
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Preputial Gland		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 42

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 476  
 HISTO: 110086

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	Hepatocyte	Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLs = 1-6 ]	Vacuolization Cytoplasmic	Moderate
	[ Hepatocellular Carcinoma TGLs = 3-21 ]		
	[ Vacuolization Cytoplasmic TGLs = 2-6 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular		Erosion	Minimal
	[ Erosion TGLs = 4-22 ]		

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 43

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110087

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Harderian Gland		Adenoma	
* Islets, Pancreatic		Hyperplasia	Moderate
* Liver		Clear Cell Focus	
	Hepatocyte	Hepatocellular Adenoma	Multiple
	[ Clear Cell Focus TGLs = 2-6 ]	Vacuolization Cytoplasmic	Moderate
	[ Hepatocellular Adenoma TGLs = 1-21,3-22,4-6,5-23 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Minimal
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 44

TMT: 1  
DOSE: 0 MG/KG

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 729  
HISTO: 110088

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Lymph Node, Mesenteric

OBSERVATIONS

* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[ Mixed Cell Focus	TGLs = 1-21 ]		



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 45

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110089

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Bone Marrow              |
| * Brain                   | * Epididymis                | * Esophagus              | * Eye                      |
| * Gallbladder             | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Preputial Gland         | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testes                  | * Thymus                    | * Trachea                | * Urinary Bladder          |

OBSERVATIONS

- |  |                |                              |               |
|--|----------------|------------------------------|---------------|
| * Harderian Gland                            |                | Adenoma                      |               |
| [ Adenoma TGLs = 5-12 ]                      |                |                              |               |
| * Kidney                                     |                | Metaplasia                   | Osseous, Mild |
|  |                | Nephropathy                  | Minimal       |
| * Liver                                      |                | Clear Cell Focus             |               |
|  | Hepatocyte     | Hepatocellular Adenoma       |               |
| [ Clear Cell Focus TGLs = 2-22 ]             |                | Vacuolization Cytoplasmic    | Moderate      |
| [ Hepatocellular Adenoma TGLs = 3-23 ]       |                |                              |               |
| * Lung                                       |                | Alveolar/Bronchiolar Adenoma |               |
| [ Alveolar/Bronchiolar Adenoma TGLs = 4-24 ] |                |                              |               |
| Mesentery                                    | Fat            | Necrosis                     | Mild          |
| [ Necrosis TGLs = 1-21 ]                     |                |                              |               |
| * Thyroid Gland                              | Follicular Cel | Adenoma                      |               |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 46

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110090

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Gallbladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
	Subcapsular	Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Hepatocellular Adenoma	Multiple
		Vacuolization Cytoplasmic	Moderate
	[ Clear Cell Focus TGLs = 3-22 ]		
	[ Hepatocellular Adenoma TGLs = 1-21,2-6 ]		
	[ Vacuolization Cytoplasmic TGLs = 4-6 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLs = 5-2 ]		
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 47

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110091

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland	* Thymus	* Thyroid Gland
---------------------	----------	-----------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Focal, Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocholangioma	
	Hepatocyte	Mixed Cell Focus	
	[ Hepatocholangioma TGLs = 3-21 ]	Vacuolization Cytoplasmic	Moderate
	[ Mixed Cell Focus TGLs = 2-6 ]		
* Preputial Gland		Cyst	Moderate
	[ Cyst TGLs = 1-8 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 48

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110092

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

MISSING

* Adrenal Medulla	* Thymus
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Intestine Small, Jejunum		Leiomyosarcoma	
	[ Leiomyosarcoma TGLs = 6-22 ]		
* Kidney		Nephropathy	Mild
* Liver		Hematopoietic Cell Proliferation	Minimal
* Lung		Leiomyosarcoma	Metastatic (Intestine Small, Jejunum)
	Note: THE METATSTATIC LEIOMYOSARCOMA IS ALONG THE VISCERAL PLEURA OF LUNG.		
Mesentery		Leiomyosarcoma	Metastatic (Intestine Small, Jejunum)
	[ Leiomyosarcoma TGLs = 4-21 ]		
* Pancreas		Leiomyosarcoma	Metastatic (Intestine Small, Jejunum)
	[ Leiomyosarcoma TGLs = 3-5 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLs = 2-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 49

TMT: 1  
 DOSE: 0 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110093

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Eosinophilic Focus	
	[ Clear Cell Focus TGLs = 1-21 ]	Vacuolization Cytoplasmic	Moderate
	[ Eosinophilic Focus TGLs = 1-21 ]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Preputial Gland		Inflammation	Chronic, Mild

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 50

TMT: 1  
DOSE: 0 MG/KG

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 729  
HISTO: 110094

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Liver	Hepatocyte	Vacuolization Cytoplasmic	Marked
* Spleen	Lymph Follic	Hyperplasia	Minimal

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 51

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110095

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Thymus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Adenoma	
	[ Adenoma TGLs = 4-12 ]		
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Infarct	Moderate
		Nephropathy	Moderate
* Liver		Hepatoblastoma	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Mixed Cell Focus	
	[ Hepatoblastoma TGLs = 3-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLs = 2-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 52

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110096

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Brain                   | * Epididymis                |
| * Esophagus              | * Eye                      | * Gallbladder             | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    | * Pancreas                  |
| * Parathyroid Gland      | * Pituitary Gland          | * Preputial Gland         | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Testes                   | * Thymus                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

OBSERVATIONS

- |                   |   |                                |             |
|-------------------|---|--------------------------------|-------------|
| * Adrenal Cortex  |   | Hypertrophy                    | Focal, Mild |
| * Bone Marrow     |   | Hyperplasia                    | Mild        |
| * Harderian Gland |   | Adenoma                        |             |
|                   | [ Adenoma TGLs = 2-12 ]                       |                                |             |
| * Kidney          |   | Infarct                        | Mild        |
|                   |   | Nephropathy                    | Minimal     |
| * Liver           |   | Mixed Cell Focus               |             |
| * Lung            |   | Alveolar/Bronchiolar Carcinoma |             |
|                   | [ Alveolar/Bronchiolar Carcinoma TGLs = 1-2 ] |                                |             |
| * Spleen          | Lymph Follic                                  | Hyperplasia                    | Minimal     |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 53

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110097

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Cyst	Moderate
* Liver		Hemangiosarcoma	
		Hepatocellular Carcinoma	
	[ Hemangiosarcoma TGLs = 5-6 ]		
	[ Hepatocellular Carcinoma TGLs = 6-23 ]		
* Lymph Node, Mesenteric		Angiectasis	Marked
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLs = 3-24 ]		
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Skin		Ulcer	Marked
	[ Ulcer TGLs = 1-21,2-22 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 54

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110098

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Mast Cell Tumor Malignant	
* Kidney		Cyst	Moderate
		Nephropathy	Moderate
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Mast Cell Tumor Malignant	
	[ Hepatocellular Adenoma TGLs = 4-22,6-24,7-25,8-26 ]		
	[ Hepatocellular Carcinoma TGLs = 5-23 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mandibular		Mast Cell Tumor Malignant	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mesentery		Hemangiosarcoma	
	[ Hemangiosarcoma TGLs = 1-21 ]		
* Skin		Mast Cell Tumor Malignant	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Mast Cell Tumor Malignant	
	[ Hematopoietic Cell Proliferation TGLs = 3-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Ulcer	Mild
* Thymus		Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 54

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 3 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 110098

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: MALIGNANT MAST CELL TUMOR WAS POSITIVE WITH TOLUIDINE BLUE STAIN IN BONE MARROW, SKIN, LIVER, SPLEEN, MANDIBULAR LYMPH NODE, AND INGUINAL LYMPH NODE.

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TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 55

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110099

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Brain                    | * Epididymis              |
| * Esophagus                 | * Eye                    | * Gallbladder              | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular  |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Pancreas                 | * Parathyroid Gland       |
| * Pituitary Gland           | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Testes                    | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

OBSERVATIONS

- |                      |   |                                  |                    |
|----------------------|---|----------------------------------|--------------------|
| * Adrenal Cortex     |   | Hyperplasia                      | Focal, Minimal     |
| * Bone Marrow        |   | Hyperplasia                      | Mild               |
| * Islets, Pancreatic |   | Hyperplasia                      | Minimal            |
| * Kidney             |   | Nephropathy                      | Minimal            |
| * Liver              |   | Hepatocellular Adenoma           | Multiple           |
|                      | [ Hepatocellular Adenoma TGLs = 2-22,3-23 ] |                                  |                    |
|                      | [ Hepatocellular Carcinoma TGLs = 1-21 ]    |                                  |                    |
| * Lung               |   | Hepatocellular Carcinoma         | Metastatic (Liver) |
|                      | [ Hepatocellular Carcinoma TGLs = 4-2 ]     |                                  |                    |
| * Nose               |   | Inflammation                     | Chronic, Minimal   |
| * Spleen             |   | Hematopoietic Cell Proliferation | Moderate           |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 56

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 654  
 HISTO: 110100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                          |
|---------------------------|-----------------------------|--------------------------|--------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                  |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder            |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic     |
| * Lymph Node, Mandibular  | * Mammary Gland             | * Nose                   | * Pancreas               |
| * Pituitary Gland         | * Prostate                  | * Salivary Glands        | * Seminal Vesicle        |
| * Stomach, Glandular      | * Testes                    | * Thymus                 | * Thyroid Gland          |
| * Trachea                 | * Urinary Bladder           |                          |                          |

MISSING

- \* Parathyroid Gland

AUTO PRECLUDES DIAG.

- \* Intestine Small, Jejunum

OBSERVATIONS

- |                          |   |                                  |                                     |
|--------------------------|---|----------------------------------|-------------------------------------|
| * Bone Marrow            |   | Hyperplasia                      | Moderate                            |
| * Kidney                 |   | Nephropathy                      | Minimal                             |
| * Liver                  |   | Hepatocellular Carcinoma         | Multiple                            |
|                          | [ Hepatocellular Carcinoma TGLs = 3-25,4-22,5-23,6-24 ] |                                  |                                     |
| * Lung                   |   | Alveolar/Bronchiolar Adenoma     |                                     |
|                          | [ Alveolar/Bronchiolar Adenoma TGLs = 7-26 ]            |                                  |                                     |
| * Lymph Node, Mesenteric |   | Hemorrhage                       | Moderate                            |
| * Preputial Gland        |   | Cyst                             | Moderate                            |
|                          | [ Cyst TGLs = 2-8 ]                                     |                                  |                                     |
| * Skin                   | Subcut Tiss   | Osteosarcoma                     | Metastatic (Uncertain Primary Site) |
|                          | [ Osteosarcoma TGLs = 1-21 ]                            |                                  |                                     |
| * Spleen                 |   | Hematopoietic Cell Proliferation | Moderate                            |
| * Stomach, Forestomach   |   | Inflammation                     | Chronic, Minimal                    |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 57

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * Esophagus              | * Eye                      | * Gallbladder             | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung                    | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    | * Pancreas                  |
| * Parathyroid Gland      | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Testes                  | * Thymus                    |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

OBSERVATIONS

- |                      |   |                           |                |
|----------------------|---|---------------------------|----------------|
| * Adrenal Cortex     |   | Hyperplasia               | Focal, Mild    |
| * Epididymis         |   | Spermatocele              | Mild           |
| * Harderian Gland    |   | Hyperplasia               | Focal, Mild    |
| * Islets, Pancreatic |   | Hyperplasia               | Minimal        |
| * Kidney             |   | Cyst                      | Moderate       |
|                      |   | Nephropathy               | Mild           |
| * Liver              |   | Clear Cell Focus          |                |
|                      | [ Clear Cell Focus TGLs = 1-6 ]           |                           |                |
| * Pituitary Gland    | Pars Distalis                             | Hyperplasia               | Focal, Minimal |
| * Preputial Gland    |   | Cyst                      | Moderate       |
|                      |   | Inflammation              | Chronic, Mild  |
| * Skin               |   | Cyst Epithelial Inclusion |                |
|                      | [ Cyst Epithelial Inclusion TGLs = 2-21 ] |                           |                |
| * Spleen             |   | Accessory Spleen          |                |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 58

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110102

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma	
	Subcapsular	Hyperplasia	Moderate
* Eye		Cataract	Mild
* Harderian Gland		Adenoma	
	[ Adenoma TGLs = 1-12 ]		
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver		Mixed Cell Focus	

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 59

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110103

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Epididymis             | * Esophagus                | * Eye                     |
| * Gallbladder               | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     | * Pancreas                |
| * Parathyroid Gland         | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Spleen                   | * Stomach, Forestomach    |
| * Testes                    | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

OBSERVATIONS

- |                          |  |                                |          |
|--------------------------|--|--------------------------------|----------|
| * Harderian Gland        |  | Adenoma                        |          |
| * Heart                  |  | Cardiomyopathy                 | Minimal  |
| * Kidney                 |  | Cyst                           | Moderate |
|                          |  | Nephropathy                    | Minimal  |
| * Liver                  |  | Eosinophilic Focus             |          |
|                          |  | Hepatocellular Carcinoma       |          |
|                          | [ Eosinophilic Focus TGLs = 1-21 ]       |                                |          |
|                          | [ Hepatocellular Carcinoma TGLs = 2-22 ] |                                |          |
| * Lung                   |  | Alveolar/Bronchiolar Carcinoma |          |
|                          |  | Hemorrhage                     | Minimal  |
| * Lymph Node, Mandibular |  | Pigmentation                   | Moderate |
| * Pituitary Gland        | Pars Distalis                            | Cyst                           | Moderate |
| * Stomach, Glandular     |  | Cyst                           | Moderate |



**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

**ANIMAL NUM:** 60

**TMT:** 3  
**DOSE:** 3 MG/KG

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

**DAY ON TEST:** 729  
**HISTO:** 110104

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Mammary Gland          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Testes                 | * Thymus                   |
| * Trachea                 | * Urinary Bladder           |                          |                            |

**OBSERVATIONS**

- |                          |   |                              |                 |
|--------------------------|---|------------------------------|-----------------|
| * Adrenal Cortex         |   | Hypertrophy                  | Focal, Minimal  |
| * Kidney                 |   | Nephropathy                  | Mild            |
| * Liver                  |   | Hepatocellular Adenoma       |                 |
|                          | [ Hepatocellular Adenoma TGLs = 1-6 ]     |                              |                 |
| * Lung                   |   | Alveolar/Bronchiolar Adenoma |                 |
| * Lymph Node, Mesenteric |   | Hyperplasia                  | Lymphoid, Mild  |
| * Skin                   |   | Cyst Epithelial Inclusion    |                 |
|                          | [ Cyst Epithelial Inclusion TGLs = 2-21 ] |                              |                 |
| * Thyroid Gland          | Follicle                                  | Degeneration                 | Focal, Moderate |

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 61

TMT: 3  
DOSE: 3 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 674  
HISTO: 110105

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Thymus
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum
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OBSERVATIONS

* Bone Marrow	Mast Cell Tumor Malignant	
* Kidney	Nephropathy	Moderate
* Liver	Hepatocellular Carcinoma	Multiple
	Mast Cell Tumor Malignant	
Note: THE HEPATOCELLULAR CARCINOMA ON SLIDE 21 IS MARKEDLY NECROTIC. [ Hepatocellular Carcinoma TGLs = 3-21,4-22 ]		
* Lung	Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mandibular	Pigmentation	Moderate
* Preputial Gland	Cyst	Moderate
	[ Cyst TGLs = 1-8 ]	
* Spleen	Mast Cell Tumor Malignant	
	[ Mast Cell Tumor Malignant TGLs = 2-6 ]	
* Stomach, Glandular	Erosion	Mild
	[ Erosion TGLs = 5-4 ]	

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Bone Marrow Mast Cell Tumor Malignant

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 62

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110106

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Preputial Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testes                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

MISSING

- \* Thymus

OBSERVATIONS

- |               |   |                      |
|---------------|---|----------------------|
| * Bone Marrow | Hyperplasia                                     | Moderate             |
| * Kidney      | Infiltration Cellular                           | Lymphocyte, Moderate |
|               | Nephropathy                                     | Moderate             |
| * Liver       | Eosinophilic Focus                              |                      |
|               | Hepatocellular Adenoma                          |                      |
|               | Hepatocellular Carcinoma                        |                      |
|               | [ Hepatocellular Adenoma TGLs = 2-6 ]           |                      |
|               | [ Hepatocellular Carcinoma TGLs = 3-21 ]        |                      |
| * Spleen      | Hematopoietic Cell Proliferation                | Moderate             |
|               | [ Hematopoietic Cell Proliferation TGLs = 1-6 ] |                      |

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 63

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[ Clear Cell Focus TGLs = 2-6 ]		
	[ Hepatocellular Adenoma TGLs = 2-6 ]		
	[ Vacuolization Cytoplasmic TGLs = 2-6 ]		
* Pancreas		Atrophy	Mild
* Preputial Gland		Cyst	Moderate
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Stomach, Glandular		Cyst	Moderate
* Testes		Angiectasis	Moderate
	[ Angiectasis TGLs = 1-21 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 64

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110108

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                          |
|---------------------------|-----------------------------|--------------------------|--------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                  |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder            |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic     |
| * Lymph Node, Mandibular  | * Mammary Gland             | * Nose                   | * Parathyroid Gland      |
| * Pituitary Gland         | * Preputial Gland           | * Prostate               | * Salivary Glands        |
| * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular     |
| * Testes                  | * Thymus                    | * Thyroid Gland          | * Trachea                |
| * Urinary Bladder         |                             |                          |                          |

OBSERVATIONS

- |  |        |                                  |                      |
|--|--------|----------------------------------|----------------------|
| * Bone Marrow  |        | Hyperplasia                      | Moderate             |
| * Intestine Small, Jejunum   |        | Carcinoma                        |                      |
| [ Carcinoma TGLs = 3-21 ]  |        |                                  |                      |
| * Kidney   |        | Infiltration Cellular            | Lymphocyte, Moderate |
|  |        | Nephropathy                      | Mild                 |
| * Liver  |        | Hepatocellular Carcinoma         | Multiple             |
| [ Hepatocellular Carcinoma TGLs = 4-22,5-23 ]  |        |                                  |                      |
| * Lung   |        | Hepatocellular Carcinoma         | Metastatic (Liver)   |
|  |        | Infiltration Cellular            | Histiocyte, Mild     |
| Note: LYMPHOCYTIC INFILTRATE IN LUNG; TDMS SYSTEM WILL NOT ALLOW TABULATION IN DATA. |        |                                  |                      |
| [ Infiltration Cellular TGLs = 6-2,6-24 ]  |        |                                  |                      |
| * Lymph Node, Mesenteric   |        | Hyperplasia                      | Lymphoid, Mild       |
| * Pancreas   | Acinus | Cytoplasmic Alteration           | Moderate             |
| * Spleen   |        | Hematopoietic Cell Proliferation | Marked               |
| [ Hematopoietic Cell Proliferation TGLs = 2-6 ]                                      |        |                                  |                      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 65

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

OBSERVATIONS

- |                   |  |                           |             |
|-------------------|--|---------------------------|-------------|
| * Adrenal Cortex  |  | Hypertrophy               | Focal, Mild |
| * Kidney          |  | Nephropathy               | Minimal     |
| * Liver           |  | Clear Cell Focus          |             |
|                   |  | Hepatocellular Adenoma    | Multiple    |
|                   | Hepatocyte                                     | Hepatocellular Carcinoma  |             |
|                   | [ Clear Cell Focus TGLs = 2-6 ]                | Vacuolization Cytoplasmic | Moderate    |
|                   | [ Hepatocellular Adenoma TGLs = 3-22,4-6,5-6 ] |                           |             |
|                   | [ Hepatocellular Carcinoma TGLs = 1-21 ]       |                           |             |
|                   | [ Vacuolization Cytoplasmic TGLs = 2-6 ]       |                           |             |
| * Pituitary Gland | Pars Distalis                                  | Cyst                      | Moderate    |
| * Preputial Gland |  | Cyst                      | Moderate    |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 66

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 654  
 HISTO: 110110

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mesenteric	* Thymus
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AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Liver		Hepatocellular Carcinoma	
	Centrilobular	Necrosis	Mild
	[ Hepatocellular Carcinoma TGLs = 9-6 ]		
Mesentery	Fat	Necrosis	Marked
		Sarcoma	
	[ Necrosis TGLs = 3-22 ]		
	[ Sarcoma TGLs = 2-21,4-23,6-24,7-5 ]		
* Pancreas		Sarcoma	Metastatic (Mesentery)
* Seminal Vesicle		Sarcoma	Metastatic (Mesentery)
	[ Sarcoma TGLs = 5-7 ]		
Skeletal Muscle		Sarcoma	
	[ Sarcoma TGLs = 8-25 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH - Mesentery Sarcoma

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 66

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 654

**DOSE:** 3 MG/KG

**DISP:** Natural Death

**HISTO:** 110110

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 67

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110111

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Mild
* Intestine Small, Jejunum		Carcinoma	
	[ Carcinoma TGLs = 2-22 ]		
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 1-21 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Preputial Gland		Cyst	Moderate
* Skin		Ulcer	Moderate
	[ Ulcer TGLs = 3-23 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 69

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[ Clear Cell Focus TGLs = 1-21 ]		
* Lung		Metaplasia	Osseous, Minimal
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
		Hemorrhage	Moderate
* Preputial Gland		Inflammation	Chronic, Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 70

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Eye	Cornea	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 3-21 ]	Vacuolization Cytoplasmic	Mild
	[ Vacuolization Cytoplasmic TGLs = 2-6 ]		
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
	[ Alveolar/Bronchiolar Adenoma TGLs = 4-2,5-2 ]		
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Moderate
	[ Cyst TGLs = 1-8 ]		
	[ Inflammation TGLs = 1-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 71

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
		Hypertrophy	Focal, Mild
* Bone		Hyperostosis	Mild
	[ Hyperostosis TGLs = 1-21 ]		
* Harderian Gland		Carcinoma	
	[ Carcinoma TGLs = 2-12 ]		
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Preputial Gland		Inflammation	Chronic, Moderate
* Spleen		Angiectasis	Mild
	Lymph Follic	Hyperplasia	Minimal
* Stomach, Glandular		Cyst	Moderate
	Note: MULTIPLE SMALL CYSTS LINED BY SQUAMOUS EPITHELIUM AT JUNCTION OF GLANDULAR STOMACH AND FORESTOMACH.		
* Testes	Germinal Epith	Atrophy	Minimal

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 72

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 663  
 HISTO: 110116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Brain                   |
| * 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      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    |
| * Parathyroid Gland         | * Pituitary Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Stomach, Forestomach   | * Stomach, Glandular       | * Testes                  |
| * Thymus                    | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

MISSING

- \* Gallbladder

INSUFFICIENT TISSUE

- \* Preputial Gland

OBSERVATIONS

- |               |   |                                  |                    |
|---------------|---|----------------------------------|--------------------|
| * Bone Marrow |   | Hyperplasia                      | Marked             |
| * Kidney      |   | Nephropathy                      | Moderate           |
|               | Renal Tubule                                    | Pigmentation                     | Moderate           |
| * Liver       |   | Hepatoblastoma                   |                    |
|               |   | Hepatocellular Carcinoma         |                    |
|               | [ Hepatoblastoma TGLs = 5-21 ]                  |                                  |                    |
|               | [ Hepatocellular Carcinoma TGLs = 6-22 ]        |                                  |                    |
| * Lung        |   | Hepatocellular Carcinoma         | Metastatic (Liver) |
| * Pancreas    | Acinus  | Cytoplasmic Alteration           | Moderate           |
| * Skin        | Subcut Tiss                                     | Hemangiosarcoma                  |                    |
|               | [ Hemangiosarcoma TGLs = 1-8 ]                  |                                  |                    |
| * Spleen      |   | Hematopoietic Cell Proliferation | Marked             |
|               | [ Hematopoietic Cell Proliferation TGLs = 4-6 ] |                                  |                    |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma  
 CONTRIBUTORY CAUSE OF DEATH - Liver Hepatoblastoma  
 - Skin Subcut Tiss Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 73

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Testes                 | * Thymus                   |
| * Trachea                 | * Urinary Bladder           |                          |                            |

OBSERVATIONS

- |                          |   |                                  |                |
|--------------------------|---|----------------------------------|----------------|
| * Bone Marrow            |   | Hyperplasia                      | Mild           |
| * Kidney                 |   | Cyst                             | Moderate       |
| * Liver                  |   | Hepatocellular Carcinoma         |                |
|                          | [ Hepatocellular Carcinoma TGLs = 1-21 ]      |                                  |                |
| * Lung                   |   | Alveolar/Bronchiolar Carcinoma   |                |
|                          | [ Alveolar/Bronchiolar Carcinoma TGLs = 2-2 ] |                                  |                |
| * Lymph Node, Mandibular |   | Hyperplasia                      | Lymphoid, Mild |
| * Spleen                 |   | Hematopoietic Cell Proliferation | Minimal        |
| * Thyroid Gland          | Follicle                                      | Degeneration                     | Focal, Mild    |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 74

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
		Hyperplasia	Focal, Mild
		Hypertrophy	Focal, Minimal
* Esophagus	Submucosa	Edema	Mild
* Harderian Gland		Hyperplasia	Focal, Mild
* Kidney	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Mild
* Liver		Clear Cell Focus	
		Hepatoblastoma	
		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[ Clear Cell Focus TGLs = 3-6 ]		
	[ Hepatoblastoma TGLs = 1-21 ]		
	[ Mixed Cell Focus TGLs = 2-22 ]		
* Nose		Foreign Body	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Cyst	Moderate

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 75

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110119

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Harderian Gland		Adenoma	
[ Adenoma TGLs = 1-12 ]			
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 76

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110120

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Harderian Gland		Adenoma	
	[ Adenoma TGLs = 5-12 ]		
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[ Clear Cell Focus TGLs = 1-21,2-6 ]		
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
	[ Alveolar/Bronchiolar Adenoma TGLs = 3-2,4-22 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 77

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110121

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lung                    | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Parathyroid Gland         | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Skin                      | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Testes                    | * Thymus                 | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

OBSERVATIONS

- |  |               |                        |                 |
|--|---------------|------------------------|-----------------|
| * Adrenal Cortex   |               | Hyperplasia            | Focal, Minimal  |
|  |               | Hypertrophy            | Focal, Moderate |
| * Islets, Pancreatic   |               | Hyperplasia            | Mild            |
| * Kidney   |               | Cyst                   | Moderate        |
|  |               | Nephropathy            | Minimal         |
| * Liver  |               | Clear Cell Focus       |                 |
|  |               | Hepatocellular Adenoma | Multiple        |
| Note: CLEAR CELL FOCUS IS PRESENT ON SLIDES 22 AND 23.<br>[ Hepatocellular Adenoma TGLs = 1-21,2-22,3-23 ] |               |                        |                 |
| * Pancreas   |               | Atrophy                | Mild            |
| * Pituitary Gland  | Pars Distalis | Hyperplasia            | Focal, Minimal  |
| * Preputial Gland  |               | Cyst                   | Moderate        |
| * Thyroid Gland  | Follicle      | Degeneration           | Focal, Mild     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 78

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Brain                    | * Epididymis              |
| * Esophagus                 | * Eye                    | * Gallbladder              | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mandibular | * Mammary Gland            | * Nose                    |
| * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                     | * Spleen                  |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   | * Thymus                  |
| * Trachea                   | * Urinary Bladder        |                            |                           |

OBSERVATIONS

- |                          |                                       |                        |                    |
|--------------------------|---------------------------------------|------------------------|--------------------|
| * Adrenal Cortex         |                                       | Hypertrophy            | Focal, Mild        |
| * Bone Marrow            |                                       | Hyperplasia            | Moderate           |
| * Kidney                 |                                       | Nephropathy            | Minimal            |
| * Liver                  |                                       | Hepatocellular Adenoma |                    |
|                          | [ Hepatocellular Adenoma TGLs = 1-6 ] |                        |                    |
| * Lymph Node, Mesenteric |                                       | Hyperplasia            | Lymphoid, Moderate |
| * Pancreas               | Acinus                                | Cytoplasmic Alteration | Mild               |
| * Thyroid Gland          | Follicle                              | Degeneration           | Focal, Minimal     |

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 79

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Dosing Accident

DAY ON TEST: 4  
 HISTO: 110123

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Eye	* Gallbladder	* 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	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Esophagus		Inflammation	Acute, Moderate
		Ulcer	Marked
	[ Ulcer TGLs = 4-21 ]		
* Lung		Inflammation	Chronic Active, Minimal
	Note: INFLAMMATION INVOLVES PLEURA AND MEDIASTINUM.		
* Lymph Node, Mandibular		Atrophy	Moderate
* Spleen	Lymph Follic	Atrophy	Moderate
* Thymus		Atrophy	Moderate
* Trachea			
	Note: TRACHEA IS ON SLIDE 3 (NO VISIBLE LESION).		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 80

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 715  
 HISTO: 110124

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone                   | * Bone Marrow              | * Brain                   | * Epididymis                |
| * Esophagus              | * Eye                      | * Gallbladder             | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung                    | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Pancreas                | * Pituitary Gland           |
| * Prostate               | * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Testes                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

MISSING

- \* Adrenal Medulla

INSUFFICIENT TISSUE

- \* Parathyroid Gland

OBSERVATIONS

- |                      |  |                                  |                      |
|----------------------|--|----------------------------------|----------------------|
| * Adrenal Cortex     | Subcapsular                              | Adenoma                          |                      |
| * Heart              |  | Cardiomyopathy                   | Minimal              |
| * Islets, Pancreatic |  | Adenoma                          | Multiple             |
| * Kidney             |  | Nephropathy                      | Minimal              |
| * Liver              |  | Hepatocellular Adenoma           | Multiple             |
|                      |  | Hepatocellular Carcinoma         |                      |
|                      | [ Hepatocellular Adenoma TGLs = 2-22 ]   |                                  |                      |
|                      | [ Hepatocellular Carcinoma TGLs = 1-21 ] |                                  |                      |
| * Nose               |  | Inflammation                     | Chronic, Mild        |
| * Preputial Gland    |  | Hemangiosarcoma                  |                      |
| * Salivary Glands    |  | Infiltration Cellular            | Lymphocyte, Moderate |
| * Spleen             |  | Hematopoietic Cell Proliferation | Marked               |
| * Thymus             |  | Lymphoma Malignant               |                      |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma  
 CONTRIBUTORY CAUSE OF DEATH - Preputial Gland Hemangiosarcoma  
 - Thymus Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 81

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Mild Focal, Moderate
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
* Liver		Hemangiosarcoma Hepatocellular Carcinoma	
Note: A PORTION OF THE HEPATOCELLULAR CARCINOMA IS PRESENT ON SLIDE 22.			
[ Hemangiosarcoma TGLs = 2-22 ]			
[ Hepatocellular Carcinoma TGLs = 1-21 ]			
* Preputial Gland		Cyst Inflammation	Moderate Chronic, Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 82

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 529  
 HISTO: 110126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Brain                    | * Epididymis              |
| * Esophagus                 | * Eye                    | * Gallbladder              | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Lymph Node, Mandibular | * Mammary Gland            | * Nose                    |
| * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          | * Preputial Gland         |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

OBSERVATIONS

- |                          |  |                                |             |
|--------------------------|--|--------------------------------|-------------|
| * Adrenal Cortex         |  | Hypertrophy                    | Focal, Mild |
| * Bone Marrow            |  | Hyperplasia                    | Mild        |
| * Liver                  | Centrilobular                                  | Hepatocellular Adenoma         |             |
|                          | [ Hepatocellular Adenoma TGLs = 3-21 ]         | Necrosis                       | Moderate    |
|                          | [ Necrosis TGLs = 2-6 ]                        |                                |             |
| * Lung                   |  | Alveolar/Bronchiolar Carcinoma |             |
|                          | [ Alveolar/Bronchiolar Carcinoma TGLs = 4-22 ] |                                |             |
| * Lymph Node, Mesenteric |  | Lymphoma Malignant             |             |
| * Spleen                 |  | Lymphoma Malignant             |             |
| * Thymus                 |  | Atrophy                        | Moderate    |

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant  
 CONTRIBUTORY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 83

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Intestine Large, Colon

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Infarct	Moderate
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
Note: A PORTION OF THE HEPATOCELLULAR CARCINOMA IS ON SLIDE 6.			
		[ Hepatocellular Adenoma TGLs = 4-22 ]	
		[ Hepatocellular Carcinoma TGLs = 3-21 ]	
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
Note: CYTOPLASMIC ALTERATION OF ACINAR CELLS CONSISTS OF DEPLETION OF ZYMOGEN GRANULES.			
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Mild
		[ Cyst TGLs = 2-8 ]	
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 83

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 3 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 110127

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLs = 5-4 ]

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TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 84

TMT: 3  
DOSE: 3 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 687  
HISTO: 110128

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		

MISSING

\* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex	Degeneration	Fatty, Mild
	Hypertrophy	Focal, Moderate
Note: ONE ADRENAL GLAND IS PRESENT ON SLIDE 5.		
* Thymus	Atrophy	Moderate
Urethra	Hemorrhage	Marked
	Inflammation	Acute, Moderate
[ Hemorrhage TGLs = 2-21 ]		
[ Inflammation TGLs = 2-21 ]		
* Urinary Bladder	Dilatation	Marked
[ Dilatation TGLs = 1-8 ]		

PRIMARY CAUSE OF DEATH - Urethra Hemorrhage

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 85

TMT: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

INSUFFICIENT TISSUE

\* Intestine Small, Duodenum

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Eye	Cornea	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Harderian Gland		Carcinoma	
	[ Carcinoma TGLs = 4-12 ]		
* Kidney		Cyst	Moderate
		Infiltration Cellular	Lymphocyte, Moderate
		Nephropathy	Marked
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLs = 3-22 ]		
* Lymph Node, Mesenteric		Atrophy	Mild
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLs = 2-21 ]		
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
	Note: PANCREATIC CYTOPLASMIC ALTERATION CONSISTS OF DEPLETION OF ZYMOGEN GRANULES FROM ACINAR CELLS.		
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic, Mild
	[ Hyperplasia TGLs = 5-4 ]		

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 85

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 3 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 110129

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thymus

Atrophy

Moderate

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TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 86

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110130

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Stomach, Glandular      | * Testes                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

MISSING

- \* Thymus

OBSERVATIONS

- |                        |  |                                  |                      |
|------------------------|--|----------------------------------|----------------------|
| * Bone Marrow          |  | Hyperplasia                      | Mild                 |
| * Kidney               |  | Infiltration Cellular            | Lymphocyte, Moderate |
|                        |  | Nephropathy                      | Moderate             |
| * Liver                |  | Hepatocellular Adenoma           |                      |
|                        |  | Hepatocellular Carcinoma         |                      |
|                        | [ Hepatocellular Adenoma TGLs = 2-21 ]   |                                  |                      |
|                        | [ Hepatocellular Carcinoma TGLs = 3-22 ] |                                  |                      |
| * Lung                 |  | Hepatocellular Carcinoma         | Metastatic (Liver)   |
| * Pancreas             | Acinus                                   | Cytoplasmic Alteration           | Moderate             |
| * Spleen               |  | Hematopoietic Cell Proliferation | Marked               |
| * Stomach, Forestomach | Epithelium                               | Hyperplasia                      | Marked               |
|                        |  | Inflammation                     | Chronic, Moderate    |
|                        | [ Hyperplasia TGLs = 4-4 ]               |                                  |                      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 87

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone                     | * Brain                   | * Epididymis                | * Esophagus              |
| * Eye                      | * Gallbladder             | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      | * Pancreas               |
| * Parathyroid Gland        | * Pituitary Gland         | * Preputial Gland           | * Prostate               |
| * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Testes                   | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

OBSERVATIONS

- |                   |  |                                   |                      |
|-------------------|--|-----------------------------------|----------------------|
| * Adrenal Cortex  |  | Accessory Adrenal Cortical Nodule | Moderate             |
| * Adrenal Medulla | Bilateral  | Pheochromocytoma Benign           |                      |
| * Bone Marrow     |  | Hyperplasia                       | Mild                 |
| * Harderian Gland |  | Adenoma                           |                      |
|                   | [ Adenoma TGLs = 2-12 ]  |                                   |                      |
| * Kidney          |  | Nephropathy                       | Mild                 |
| * Liver           |  | Hepatocellular Carcinoma          |                      |
|                   | Note: A PORTION OF THE HEPATOCELLULAR CARCINOMA IS ON SLIDE 6. |                                   |                      |
|                   | [ Hepatocellular Carcinoma TGLs = 1-21 ]                       |                                   |                      |
| * Salivary Glands |  | Infiltration Cellular             | Lymphocyte, Moderate |
| * Spleen          |  | Hematopoietic Cell Proliferation  | Moderate             |

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 88

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Bone Marrow              | * Brain                   |
| * Epididymis                | * Esophagus              | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  |
| * Mammary Gland             | * Nose                   | * Pancreas                 | * Parathyroid Gland       |
| * Pituitary Gland           | * Prostate               | * Salivary Glands          | * Seminal Vesicle         |
| * Skin                      | * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Testes                    | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

OBSERVATIONS

- |                   |  |                |
|-------------------|--|----------------|
| * Adrenal Cortex  | Accessory Adrenal Cortical Nodule          | Moderate       |
|                   | Hypertrophy                                | Focal, Minimal |
| * Harderian Gland | Hyperplasia                                | Focal, Minimal |
| * Liver           | Clear Cell Focus                           |                |
|                   | Hepatocellular Adenoma                     |                |
|                   | Mixed Cell Focus                           |                |
|                   | Hepatocyte                                 |                |
|                   | [ Clear Cell Focus TGLs = 2-22,3-23,5-24 ] |                |
|                   | [ Hepatocellular Adenoma TGLs = 1-21 ]     |                |
|                   | [ Mixed Cell Focus TGLs = 4-6 ]            |                |
|                   | [ Vacuolization Cytoplasmic TGLs = 4-6 ]   | Moderate       |
| * Preputial Gland | Cyst                                       | Moderate       |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 89

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Bone Marrow             | * Brain                     |
| * 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      | * Lung                      |
| * Lymph Node, Mandibular | * Mammary Gland            | * Nose                    | * Pancreas                  |
| * Parathyroid Gland      | * Pituitary Gland          | * Preputial Gland         | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Spleen                    |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

INSUFFICIENT TISSUE

- \* Gallbladder

OBSERVATIONS

- |   |  |                           |                |
|---|--|---------------------------|----------------|
| * Adrenal Cortex  |  | Hyperplasia               | Focal, Mild    |
|   |  | Hypertrophy               | Focal, Minimal |
| * Epididymis  |  | Granuloma Sperm           | Moderate       |
| * Eye   |  |                           |                |
| Note: ONE OF THE EYES APPEARS TO HAVE BEEN DAMAGED DURING PROCESSING (RETINA IS NOT VISIBLE). |  |                           |                |
| * Kidney  |  | Cyst                      | Moderate       |
|   |  | Nephropathy               | Minimal        |
| * Liver   |  | Clear Cell Focus          |                |
|   |  | Cyst                      | Moderate       |
|   | Hepatocyte                             | Hepatocellular Adenoma    |                |
|   |  | Vacuolization Cytoplasmic | Moderate       |
|   | [ Clear Cell Focus TGLs = 2-22,3-23 ]  |                           |                |
|   | [ Hepatocellular Adenoma TGLs = 1-21 ] |                           |                |
| * Lymph Node, Mesenteric  |  | Ectasia                   | Mild           |
|   |  | Hemorrhage                | Moderate       |
|   |  | Pigmentation              | Moderate       |
| * Testes  | Germinal Epith                         | Atrophy                   | Mild           |
| * Thymus  |  |                           |                |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 89

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 3 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 110133

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: THE THYMUS IS ON SLIDE 2.

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TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 90

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma	
		Hyperplasia	Focal, Moderate
		Hypertrophy	Focal, Mild
* Harderian Gland		Hyperplasia	Focal, Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[ Vacuolization Cytoplasmic TGLs = 2-6 ]		
* Preputial Gland		Inflammation	Chronic, Mild
	[ Inflammation TGLs = 1-8 ]		
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 91

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110135

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Mild
* Bone Marrow	Hyperplasia	Mild
* Harderian Gland	Adenoma	
* Islets, Pancreatic	Hyperplasia	Moderate
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
	Clear Cell Focus	
	Hepatocellular Adenoma	
	Hepatocellular Carcinoma	Multiple
	Mixed Cell Focus	
Note: CLEAR CELL FOCUS IS ON SLIDE 22; BASOPHILIC FOCUS IS ON SLIDE 23; HEPATOCELLULAR CARCINOMA IS ON SLIDES 6 AND 21.		
	[ Hepatocellular Adenoma TGLs = 3-23 ]	
	[ Hepatocellular Carcinoma TGLs = 2-21 ]	
	[ Mixed Cell Focus TGLs = 1-22 ]	
* Lung	Hepatocellular Carcinoma	Metastatic (Liver)
* Pancreas	Atrophy	Marked
* Preputial Gland	Cyst	Moderate
	Inflammation	Chronic, Mild
* Spleen	Hematopoietic Cell Proliferation	Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 92

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                            |                          |
|---------------------------|-----------------------------|----------------------------|--------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow              | * Brain                  |
| * Epididymis              | * Esophagus                 | * Eye                      | * Gallbladder            |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Lung                    | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric   | * Mammary Gland          |
| * Nose                    | * Pancreas                  | * Parathyroid Gland        | * Preputial Gland        |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle          | * Skin                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thyroid Gland            | * Trachea                |
| * Urinary Bladder         |                             |                            |                          |

MISSING

- \* Intestine Small, Ileum

OBSERVATIONS

- |                   |   |                                  |                |
|-------------------|---|----------------------------------|----------------|
| * Adrenal Cortex  |   | Hypertrophy                      | Focal, Minimal |
| * Kidney          |   | Nephropathy                      | Minimal        |
| * Liver           |   | Clear Cell Focus                 |                |
|                   |   | Hepatocellular Adenoma           | Multiple       |
|                   | [ Clear Cell Focus TGLs = 3-6 ]             |                                  |                |
|                   | [ Hepatocellular Adenoma TGLs = 1-21,2-22 ] |                                  |                |
| * Pituitary Gland | Pars Distalis                               | Cyst                             | Moderate       |
| * Spleen          |   | Hematopoietic Cell Proliferation | Minimal        |
| * Testes          | Germinal Epith                              | Atrophy                          | Mild           |
| * Thymus          |   | Atrophy                          | Mild           |

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 93

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110137

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Mild
* Intestine Small, Ileum	Epithelium	Hyperplasia	Moderate
* Kidney		Cyst	Moderate
* Liver		Clear Cell Focus	
		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[ Clear Cell Focus TGLs = 1-6 ]			
[ Mixed Cell Focus TGLs = 2-21 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Marked
* Preputial Gland		Cyst	Moderate
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen	Lymph Follic	Hyperplasia	Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 94

TMT: 3  
DOSE: 3 MG/KG

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 731  
HISTO: 110138

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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	* Liver	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Gallbladder

OBSERVATIONS

* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
	Lymph Follic	Hyperplasia	Mild

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 95

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110139

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Eye		Inflammation	Chronic, Marked
* Harderian Gland	Bilateral	Adenoma	
Note: HARDERIAN GLAND ADENOMAS ARE PRESENT ON SLIDES 12 AND 22. [ Adenoma TGLs = 2-22 ]			
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLs = 1-21 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 96

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110140

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma	
		Hypertrophy	Focal, Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
		[ Clear Cell Focus TGLs = 4-6 ]	
		[ Hepatocellular Adenoma TGLs = 3-6 ]	
		[ Hepatocellular Carcinoma TGLs = 3-6,1-21,2-22 ]	
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Diverticulum	
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
Tissue NOS		Hemangiosarcoma	

Note: THE HEMANGIOSARCOMA IS IN THE PERIRENAL FAT NEAR HILUS OF LEFT KIDNEY.

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 97

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110141

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone	Cranium	Osteopetrosis	Mild
	[ Osteopetrosis TGLs = 2-22 ]		
* Bone Marrow		Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Cyst	Moderate
		Infiltration Cellular	Lymphocyte, Moderate
		Nephropathy	Moderate
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLs = 1-21 ]		
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Mild

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 98

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110142

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Granuloma Sperm	Moderate
* Gallbladder			
Note: GALLBLADDER IS ON SLIDE 7.			
* Kidney	Renal Tubule	Nephropathy	Moderate
		Pigmentation	Moderate
* Liver		Eosinophilic Focus	
		Hepatocellular Carcinoma	Multiple
Note: EOSINOPHILIC FOCI ARE ON SLIDES 6 AND 23.			
[ Eosinophilic Focus TGLs = 5-23 ]			
[ Hepatocellular Carcinoma TGLs = 3-21,4-22 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric		Angiectasis	Moderate
		Hematopoietic Cell Proliferation	Mild
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin		Edema	Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLs = 2-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
	[ Hyperplasia TGLs = 6-24 ]		
* Testes	Germinal Epith	Atrophy	Moderate
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 98

**TMT:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 3 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 110142

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Thyroid Gland

Follicle

Degeneration

Focal, Mild

---

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 99

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110143

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Cyst	Moderate
		Infiltration Cellular	Lymphocyte, Mild
		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
		Inflammation	Chronic Active, Moderate
	[ Hepatocellular Adenoma TGLs = 6-23 ]		
	[ Hepatocellular Carcinoma TGLs = 3-21,4-22,5-24 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLs = 2-6 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 100

TMT: 3  
 DOSE: 3 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110144

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lung                    | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Prostate                | * Seminal Vesicle           | * Skin                   | * Stomach, Glandular       |
| * Testes                  | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

OBSERVATIONS

- |                        |   |                                  |                  |
|------------------------|---|----------------------------------|------------------|
| * Bone Marrow          |   | Hyperplasia                      | Mild             |
| * Islets, Pancreatic   |   | Adenoma                          |                  |
| * Kidney               |   | Hydronephrosis                   | Mild             |
|                        |   | Nephropathy                      | Moderate         |
| * Liver                |   | Hepatocellular Adenoma           |                  |
|                        |   | Hepatocellular Carcinoma         |                  |
|                        | [ Hepatocellular Adenoma TGLs = 2-21 ]  |                                  |                  |
|                        | [ Hepatocellular Carcinoma TGLs = 3-22 ]  |                                  |                  |
| * Pituitary Gland      |   |                                  |                  |
|                        | Note: TGL 1 MAY HAVE BEEN INADVERTENTLY RECORDED FOR PITUITARY RATHER THAN PREPUTIAL GLAND AT NECROPSY. |                                  |                  |
| * Preputial Gland      |   | Cyst                             | Moderate         |
|                        |   | Inflammation                     | Chronic, Mild    |
| * Salivary Glands      |   | Infiltration Cellular            | Lymphocyte, Mild |
| * Spleen               |   | Hematopoietic Cell Proliferation | Mild             |
|                        | Lymph Follicle  | Hyperplasia                      | Mild             |
| * Stomach, Forestomach | Epithelium  | Hyperplasia                      | Moderate         |
|                        | [ Hyperplasia TGLs = 4-23 ]   |                                  |                  |

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 101

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 688  
 HISTO: 110145

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                          |                           |
|-----------------------------|--------------------------|--------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                   | * Brain                   |
| * Epididymis                | * Esophagus              | * Eye                    | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic     | * Kidney                  |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland          | * Nose                    |
| * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland        | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                   | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Testes                 | * Thymus                 | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                          |                           |

AUTO PRECLUDES DIAG.

- \* Gallbladder

OBSERVATIONS

- |                            |  |                                  |          |
|----------------------------|--|----------------------------------|----------|
| * Bone Marrow              |  | Hyperplasia                      | Mild     |
| * Intestine Small, Jejunum |  | Carcinoma                        |          |
|                            | [ Carcinoma TGLs = 4-22 ]              |                                  |          |
| * Liver                    |  | Eosinophilic Focus               |          |
|                            |  | Hepatocellular Adenoma           |          |
|                            | [ Eosinophilic Focus TGLs = 3-6 ]      |                                  |          |
|                            | [ Hepatocellular Adenoma TGLs = 2-21 ] |                                  |          |
| * Lung                     | Alveolar Epith                         | Hyperplasia                      | Mild     |
| * Preputial Gland          |  | Cyst                             | Moderate |
|                            | [ Cyst TGLs = 1-8 ]                    |                                  |          |
| * Spleen                   |  | Hematopoietic Cell Proliferation | Mild     |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma  
 CONTRIBUTORY CAUSE OF DEATH - Intestine Small, Jejunum Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 102

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110146

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Preputial Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

OBSERVATIONS

- |                  |  |                           |             |
|------------------|--|---------------------------|-------------|
| * Adrenal Cortex |  | Hypertrophy               | Focal, Mild |
| * Kidney         |  | Nephropathy               | Minimal     |
| * Liver          |  | Mixed Cell Focus          |             |
|                  | Hepatocyte                               | Vacuolization Cytoplasmic | Moderate    |
|                  | [ Mixed Cell Focus TGLs = 2-6 ]          |                           |             |
|                  | [ Vacuolization Cytoplasmic TGLs = 2-6 ] |                           |             |
| * Skin           |  | Fibrosis                  | Marked      |
|                  | [ Fibrosis TGLs = 1-21 ]                 |                           |             |
| * Spleen         |  | Lymphoma Malignant        |             |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 103

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110147

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Epididymis              | * Esophagus                 | * Eye                    |
| * Gallbladder              | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney                  | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Pancreas                  | * Parathyroid Gland      |
| * Pituitary Gland          | * Preputial Gland         | * Prostate                  | * Salivary Glands        |
| * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Testes                   | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

OBSERVATIONS

- |  |   |                           |                  |
|--|---|---------------------------|------------------|
| * Islets, Pancreatic                   |   | Hyperplasia               | Minimal          |
| * Liver                                |   | Clear Cell Focus          |                  |
|  |   | Hepatocellular Adenoma    | Multiple         |
|  |   | Mixed Cell Focus          |                  |
|  | Hepatocyte                                  | Vacuolization Cytoplasmic | Moderate         |
| Note: CLEAR CELL FOCUS IS ON SLIDE 22. |   |                           |                  |
|  | [ Hepatocellular Adenoma TGLs = 1-21,2-22 ] |                           |                  |
|  | [ Mixed Cell Focus TGLs = 3-23 ]            |                           |                  |
| * Nose                                 |   | Inflammation              | Chronic, Minimal |
| * Spleen                               | Lymph Follic                                | Hyperplasia               | Moderate         |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 104

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110148

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	Hepatocyte	Vacuolization Cytoplasmic	Marked
	[ Hepatocellular Adenoma TGLs = 2-6,3-22,4-6 ]		
	[ Vacuolization Cytoplasmic TGLs = 5-6 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 1-21 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 105

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110149

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Mammary Gland          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Spleen                  | * Stomach, Forestomach      | * Testes                 | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

OBSERVATIONS

- |  |            |                              |                |
|--|------------|------------------------------|----------------|
| * Adrenal Cortex                                 |            | Hypertrophy                  | Focal, Minimal |
| * Kidney   |            | Nephropathy                  | Minimal        |
| * Liver  | Hepatocyte | Vacuolization Cytoplasmic    | Moderate       |
| * Lung   |            | Alveolar/Bronchiolar Adenoma |                |
| Note: THE ALVEOLAR/BRONCHIOLAR ADENOMA IS SMALL. |            |                              |                |
| * Lymph Node, Mesenteric                         |            | Angiectasis                  | Moderate       |
|  |            | Hemorrhage                   | Moderate       |
| * Stomach, Glandular                             | Epithelium | Hyperplasia                  | Moderate       |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 106

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110150

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                           |
|--------------------------|----------------------------|--------------------------|---------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                   | * Brain                   |
| * Epididymis             | * Esophagus                | * Eye                    | * Harderian Gland         |
| * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Kidney                  |
| * Lymph Node, Mandibular | * Mammary Gland            | * Nose                   | * Pancreas                |
| * Parathyroid Gland      | * Pituitary Gland          | * Prostate               | * Salivary Glands         |
| * Seminal Vesicle        | * Skin                     | * Stomach, Forestomach   | * Stomach, Glandular      |
| * Testes                 | * Thymus                   | * Thyroid Gland          | * Trachea                 |
| * Urinary Bladder        |                            |                          |                           |

MISSING

- \* Gallbladder

OBSERVATIONS

- |   |  |                                      |
|---|--|--------------------------------------|
| * Bone Marrow   | Hyperplasia  | Mild                                 |
| * Intestine Small, Duodenum<br>[ Adenoma TGLs = 3-21 ]          | Adenoma  |                                      |
| * Liver<br><br>[ Hepatocellular Carcinoma TGLs = 2-22 ]         | Clear Cell Focus<br>Eosinophilic Focus<br>Hepatocellular Carcinoma<br>Inflammation | Multiple<br><br>Chronic Active, Mild |
| * Lung  | Alveolar/Bronchiolar Adenoma<br>Hepatocellular Carcinoma                           | Metastatic (Liver)                   |
| * Lymph Node, Mesenteric  | Hemorrhage   | Mild                                 |
| * Preputial Gland   | Cyst<br>Inflammation   | Moderate<br>Chronic, Mild            |
| * Spleen<br><br>[ Hematopoietic Cell Proliferation TGLs = 1-6 ] | Hematopoietic Cell Proliferation   | Moderate                             |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 107

TMT: 5  
DOSE: 6 MG/KG

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 729  
HISTO: 110151

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Hyperplasia	Focal, Mild
* Kidney	Nephropathy	Minimal

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 108

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 696  
 HISTO: 110152

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- |                          |                          |                           |                             |
|--------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla        | * Bone                    | * Brain                     |
| * Epididymis             | * Esophagus              | * Eye                     | * Gallbladder               |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic     | * Mammary Gland           | * Nose                      |
| * Parathyroid Gland      | * Pituitary Gland        | * Prostate                | * Seminal Vesicle           |
| * Stomach, Glandular     | * Trachea                |                           |                             |

**MISSING**

- \* Intestine Small, Jejunum

**OBSERVATIONS**

- |                          |                                     |                    |          |
|--------------------------|-------------------------------------|--------------------|----------|
| * Bone Marrow            |                                     | Hyperplasia        | Moderate |
|                          |                                     | Lymphoma Malignant |          |
| * Harderian Gland        |                                     | Lymphoma Malignant |          |
| * Heart                  |                                     | Lymphoma Malignant |          |
| * Kidney                 |                                     | Lymphoma Malignant |          |
| * Liver                  |                                     | Lymphoma Malignant |          |
|                          |                                     | Mixed Cell Focus   |          |
|                          |                                     | Tension Lipidosis  |          |
|                          | [ Mixed Cell Focus TGLs = 9-24 ]    |                    |          |
| * Lung                   |                                     | Lymphoma Malignant |          |
| Lymph Node               | Mediastinal                         | Lymphoma Malignant |          |
|                          | Iliac                               | Lymphoma Malignant |          |
|                          | Renal                               | Lymphoma Malignant |          |
|                          | Bronchial                           | Lymphoma Malignant |          |
|                          | [ Lymphoma Malignant TGLs = 12-3 ]  |                    |          |
|                          | [ Lymphoma Malignant TGLs = 6-22 ]  |                    |          |
|                          | [ Lymphoma Malignant TGLs = 8-23 ]  |                    |          |
|                          | [ Lymphoma Malignant TGLs = 13-26 ] |                    |          |
| * Lymph Node, Mandibular |                                     | Lymphoma Malignant |          |
|                          | [ Lymphoma Malignant TGLs = 1-8 ]   |                    |          |
| * Lymph Node, Mesenteric |                                     | Lymphoma Malignant |          |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 108

TMT: 5

SEX: Male

DAY ON TEST: 696

DOSE: 6 MG/KG

DISP: Natural Death

HISTO: 110152

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Lymphoma Malignant	
	[ Lymphoma Malignant TGLs = 4-7 ]		
* Preputial Gland		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
Skeletal Muscle		Lymphoma Malignant	
	[ Lymphoma Malignant TGLs = 2-21,14-21 ]		
* Skin		Edema	Moderate
	[ Edema TGLs = 10-25 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Lymphoma Malignant	
	[ Hematopoietic Cell Proliferation TGLs = 5-6 ]		
	[ Lymphoma Malignant TGLs = 5-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
	[ Lymphoma Malignant TGLs = 11-3 ]		
* Thyroid Gland		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 109

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Moribund Sacrifice

DAY ON TEST: 698  
 HISTO: 110153

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Bone Marrow		Hyperplasia	Mild
* Intestine Small, Jejunum		Lymphoma Malignant	
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Infiltration Cellular	Lymphocyte, Mild
		Metaplasia	Osseous, Mild
		Nephropathy	Moderate
* Liver		Hepatoblastoma	
	Centrilobular	Hepatocellular Adenoma	
		Necrosis	Moderate
	[ Hepatoblastoma TGLs = 5-22 ]		
	[ Hepatocellular Adenoma TGLs = 3-21 ]		
	[ Necrosis TGLs = 4-6 ]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Lymphoma Malignant	
	[ Hematopoietic Cell Proliferation TGLs = 2-6 ]		
	[ Lymphoma Malignant TGLs = 2-6 ]		
* Testes	Germinal Epith	Atrophy	Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

\* PROTOCOL REQUIRED TISSUE



**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 109

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 698

**DOSE:** 6 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 110153

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH - Liver Hepatoblastoma  
CONTRIBUTORY CAUSE OF DEATH - Spleen Lymphoma Malignant

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TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 110

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 677  
 HISTO: 110154

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Lymph Node, Mandibular | * Mammary Gland            |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Testes                 | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

MISSING

- \* Lymph Node, Mesenteric

OBSERVATIONS

- |                  |  |                                  |                    |
|------------------|--|----------------------------------|--------------------|
| * Adrenal Cortex |  | Hypertrophy                      | Focal, Minimal     |
| * Liver          |  | Clear Cell Focus                 |                    |
|                  |  | Hepatocellular Carcinoma         |                    |
|                  | [ Hepatocellular Carcinoma TGLs = 2-21 ] |                                  |                    |
| * Lung           |  | Hepatocellular Carcinoma         | Metastatic (Liver) |
| * Nose           |  | Inflammation                     | Chronic, Minimal   |
| * Spleen         |  | Hematopoietic Cell Proliferation | Moderate           |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 111

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110155

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Parathyroid Gland      | * Pituitary Gland          |
| * Preputial Gland         | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Spleen                    | * Stomach, Glandular     | * Testes                   |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

OBSERVATIONS

- |                        |  |                           |               |
|------------------------|--|---------------------------|---------------|
| * Adrenal Cortex       | Subcapsular                            | Hyperplasia               | Moderate      |
| * Kidney               |  | Metaplasia                | Osseous, Mild |
| * Liver                | Hepatocyte                             | Hepatocellular Adenoma    |               |
|                        | [ Hepatocellular Adenoma TGLs = 1-21 ] | Vacuolization Cytoplasmic | Moderate      |
| * Pancreas             |  | Atrophy                   | Minimal       |
| * Stomach, Forestomach | Epithelium                             | Hyperplasia               | Moderate      |
|                        | [ Hyperplasia TGLs = 2-22 ]            |                           |               |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 112

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Moribund Sacrifice

DAY ON TEST: 691  
 HISTO: 110156

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Brain                     | * Epididymis             |
| * Esophagus                | * Gallbladder             | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nose                     | * Pancreas                | * Pituitary Gland           | * Preputial Gland        |
| * Prostate                 | * Salivary Glands         | * Seminal Vesicle           | * Skin                   |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Testes                    | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         |                             |                          |

MISSING

- |                     |          |
|---------------------|----------|
| * Parathyroid Gland | * Thymus |
|---------------------|----------|

OBSERVATIONS

- |  |                                  |                    |
|--|----------------------------------|--------------------|
| * Adrenal Cortex                         | Hyperplasia                      | Focal, Moderate    |
| * Bone Marrow                            | Hyperplasia                      | Mild               |
| * Eye                                    | Inflammation                     | Chronic, Mild      |
| * Harderian Gland                        | Adenoma                          |                    |
| [ Adenoma TGLs = 4-22 ]                  |                                  |                    |
| * Kidney                                 | Nephropathy                      | Mild               |
| * Liver                                  | Eosinophilic Focus               |                    |
|  | Hepatocellular Carcinoma         |                    |
|  | Necrosis                         | Focal, Mild        |
| [ Eosinophilic Focus TGLs = 2-6 ]        |                                  |                    |
| [ Hepatocellular Carcinoma TGLs = 3-21 ] |                                  |                    |
| [ Necrosis TGLs = 2-6 ]                  |                                  |                    |
| * Lung                                   | Hepatocellular Carcinoma         | Metastatic (Liver) |
| * Lymph Node, Mandibular                 | Hyperplasia                      | Lymphoid, Minimal  |
| * Spleen                                 | Atrophy                          | Moderate           |
|  | Hematopoietic Cell Proliferation | Mild               |
| * Urin Bladder                           |                                  |                    |

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 112

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 691

**DOSE:** 6 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 110156

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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CONTRIBUTORY CAUSE OF DEATH - Harderian Gland Adenoma

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TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 113

TMT: 5  
DOSE: 6 MG/KG

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 729  
HISTO: 110157

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Infarct	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
	[ Alveolar/Bronchiolar Carcinoma TGLs = 1-2,2-2 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 114

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110158

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Bone Marrow		Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Infarct	Mild
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: THE HEPATOCELLULAR ADENOMA ON SLIDE 21 IS LARGER THAN USUAL. THE TUMOR IS VERY WELL DIFFERENTIATED AND THEREFORE CONSIDERED BENIGN.			
	[ Hepatocellular Adenoma TGLs = 1-21,2-22 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 115

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Moribund Sacrifice

DAY ON TEST: 589  
 HISTO: 110159

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	Skeletal Muscle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	[ Alveolar/Bronchiolar Carcinoma TGLs = 11-12 ]		
* Kidney		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Necrosis	Moderate
* Liver		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
	Note: HEPATOCELLULAR ADENOMAS ARE ON SLIDES 6 AND 21.		
	[ Hepatocellular Adenoma TGLs = 1-21 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
	[ Alveolar/Bronchiolar Carcinoma TGLs = 4-23,5-2,6-2,7-2,8-2,9-2,10-2 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Thymus		Atrophy	Moderate
Tissue NOS		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	Note: TISSUE NOS APPEARS TO BE MEDIASTINUM. SKELETAL MUSCLE IN THE SECTION ON SLIDE 22 APPEARS NORMAL.		
	[ Alveolar/Bronchiolar Carcinoma TGLs = 3-22 ]		

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 116

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110160

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Epididymis              | * Esophagus                 | * Eye                    |
| * Gallbladder              | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      | * Pancreas               |
| * Parathyroid Gland        | * Pituitary Gland         | * Prostate                  | * Salivary Glands        |
| * Seminal Vesicle          | * Skin                    | * Spleen                    | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Testes                  | * Thymus                    | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

OBSERVATIONS

- |                   |   |                           |                 |
|-------------------|---|---------------------------|-----------------|
| * Kidney          |   | Nephropathy               | Minimal         |
| * Liver           |   | Hepatocellular Adenoma    | Multiple        |
|                   |   | Mixed Cell Focus          |                 |
|                   | Hepatocyte                              | Vacuolization Cytoplasmic | Mild            |
|                   | [ Hepatocellular Adenoma TGLs = 1,3-6 ] |                           |                 |
|                   | [ Mixed Cell Focus TGLs = 2-21 ]        |                           |                 |
| * Preputial Gland |   | Cyst                      | Moderate        |
| * Thyroid Gland   | Follicle                                | Degeneration              | Focal, Moderate |

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 117

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110161

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Moderate
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver	Hepatocyte	Mixed Cell Focus	
		Vacuolization Cytoplasmic	Moderate
	[ Mixed Cell Focus TGLs = 2-6 ]		
	[ Vacuolization Cytoplasmic TGLs = 2-6 ]		
* Lung	Alveolar Epith	Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLs = 3-2 ]	Hyperplasia	Mild
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 1-21 ]		
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 118

TMT: 5  
DOSE: 6 MG/KG

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 730  
HISTO: 110162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Brain                    | * Epididymis              |
| * Esophagus                 | * Eye                    | * Gallbladder              | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney                  |
| * Lung                      | * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    |
| * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          | * Preputial Gland         |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle          | * Skin                    |
| * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Testes                  |
| * Thymus                    | * Trachea                | * Urinary Bladder          |                           |

OBSERVATIONS

- |  |            |  |                   |
|--|------------|--|-------------------|
| * Adrenal Cortex                                 |            | Hyperplasia                              | Focal, Mild       |
|  |            | Hypertrophy                              | Focal, Mild       |
| * Bone Marrow                                    |            | Hyperplasia                              | Mild              |
| * Islets, Pancreatic                             |            | Hyperplasia                              | Mild              |
| * Liver  |            | Clear Cell Focus                         |                   |
|  |            | Hepatocellular Adenoma                   |                   |
|  |            | Hepatocellular Carcinoma                 |                   |
|  | Hepatocyte | Vacuolization Cytoplasmic                | Moderate          |
| Note: THE HEPATOCELLULAR ADENOMA IS ON SLIDE 21. |            |  |                   |
|  |            | [ Clear Cell Focus TGLs = 1-6 ]          |                   |
|  |            | [ Hepatocellular Carcinoma TGLs = 2-21 ] |                   |
|  |            | [ Vacuolization Cytoplasmic TGLs = 1-6 ] |                   |
| * Lymph Node, Mandibular                         |            | Hyperplasia                              | Lymphoid, Minimal |
| * Thyroid Gland                                  | Follicle   | Degeneration                             | Focal, Moderate   |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**ANIMAL NUM:** 119

**TMT:** 5  
**DOSE:** 6 MG/KG

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

**DAY ON TEST:** 729  
**HISTO:** 110163

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Infiltration Cellular	Lymphocyte, Mild
		Nephropathy	Moderate
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLs = 3-21,4-22,5-23 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	[ Hepatocellular Carcinoma TGLs = 7-25,8-26,9-2,10-2,11-2,12-2 ]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Skin	Epidermis	Hyperplasia	Moderate
		Inflammation	Chronic, Mild
	[ Hyperplasia TGLs = 6-24 ]		
	[ Inflammation TGLs = 6-24 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLs = 2-6 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 120

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110164

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Harderian Gland		Carcinoma	
	[ Carcinoma TGLs = 3-12 ]		
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	[ Hepatocellular Adenoma TGLs = 1-21 ]	Hepatocellular Adenoma	
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLs = 2-2 ]		
* Nose		Inflammation	Chronic, Mild
* Pancreas		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Thymus		Cyst	Moderate

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 121

TMT: 5  
DOSE: 6 MG/KG

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 729  
HISTO: 110165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pituitary Gland
--------------------------	--------------------------	-------------------

OBSERVATIONS

* Bone Marrow	Hyperplasia	Moderate
* Kidney	Infarct	Minimal
* Liver	Hepatocellular Adenoma	
	Hepatocellular Carcinoma	
Note: A PORTION OF THE HEPATOCELLULAR CARCINOMA IS ON SLIDE 6. [ Hepatocellular Adenoma TGLs = 1-21 ] [ Hepatocellular Carcinoma TGLs = 2-22 ]		
* Preputial Gland	Cyst	Moderate
* Spleen	Lymphoma Malignant	

TDMS No. 99037 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010

Time Report Requested: 13:38:29

First Dose M/F: 06/30/03 / 06/30/03

Lab: SRI

ANIMAL NUM: 122

TMT: 5

SEX: Male

DAY ON TEST: 729

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110166

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Epididymis              | * Esophagus                 | * Eye                    |
| * Gallbladder              | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Nose                    | * Pancreas                  | * Parathyroid Gland      |
| * Pituitary Gland          | * Preputial Gland         | * Prostate                  | * Salivary Glands        |
| * Seminal Vesicle          | * Skin                    | * Stomach, Glandular        | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         |                             |                          |

OBSERVATIONS

- |                        |  |  |                                  |
|------------------------|--|--|----------------------------------|
| * Kidney               |  | Infiltration Cellular<br>Nephropathy                                     | Lymphocyte, Moderate<br>Moderate |
| * Liver                |  | Eosinophilic Focus<br>Hepatocellular Adenoma<br>Hepatocellular Carcinoma | Multiple                         |
|                        | [ Hepatocellular Adenoma TGLs = 3-22 ]       |  |                                  |
|                        | [ Hepatocellular Carcinoma TGLs = 1-6,2-21 ] |  |                                  |
| * Lung                 |  | Hepatocellular Carcinoma   | Metastatic (Liver)               |
| * Spleen               |  | Hematopoietic Cell Proliferation   | Moderate                         |
| * Stomach, Forestomach | Epithelium                                   | Hyperplasia  | Marked                           |
|                        | [ Hyperplasia TGLs = 4-23 ]                  |  |                                  |
| * Testes               | Interstit Cell                               | Hyperplasia  | Moderate                         |
| * Thymus               |  | Atrophy  | Mild                             |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 123

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Gallbladder	* Parathyroid Gland
---------------	---------------------

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Intestine Small, Duodenum		Carcinoma	
[ Carcinoma TGLs = 8-25 ]			
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[ Hepatocellular Adenoma TGLs = 3-6,5-22,6-23,7-24 ]			
[ Hepatocellular Carcinoma TGLs = 4-21 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Adenoma TGLs = 9-26 ]			
[ Alveolar/Bronchiolar Carcinoma TGLs = 10-26 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
* Testes	Interstit Cell	Adenoma	
[ Adenoma TGLs = 1-7 ]			

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 124

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110168

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Bone Marrow              | * Brain                   |
| * Epididymis                | * Esophagus              | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                     | * Spleen                  |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

OBSERVATIONS

- |                          |   |                           |                    |
|--------------------------|---|---------------------------|--------------------|
| * Adrenal Cortex         |   | Hypertrophy               | Focal, Mild        |
| * Harderian Gland        |   | Adenoma                   |                    |
|                          | [ Adenoma TGLs = 2-12 ]                     |                           |                    |
| * Kidney                 |   | Nephropathy               | Minimal            |
| * Liver                  |   | Hepatocellular Adenoma    | Multiple           |
|                          | Hepatocyte                                  | Vacuolization Cytoplasmic | Moderate           |
|                          | [ Hepatocellular Adenoma TGLs = 1-21,3-22 ] |                           |                    |
| * Lung                   | Alveolar Epith                              | Hyperplasia               | Minimal            |
| * Lymph Node, Mandibular |   | Hyperplasia               | Lymphoid, Moderate |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 125

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                           |                             |                          |
|--------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex         | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                  | * Epididymis              | * Esophagus                 | * Eye                    |
| * Gallbladder            | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Islets, Pancreatic     | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                   |
| * Pancreas               | * Parathyroid Gland       | * Pituitary Gland           | * Prostate               |
| * Salivary Glands        | * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular     | * Testes                  | * Thymus                    | * Trachea                |
| * Urinary Bladder        |                           |                             |                          |

OBSERVATIONS

- |   |                                  |                   |
|---|----------------------------------|-------------------|
| * Intestine Small, Jejunum<br>[ Lymphoma Malignant TGLs = 5-3 ] | Lymphoma Malignant               |                   |
| * Kidney  | Nephropathy                      | Minimal           |
| * Liver   | Hemangiosarcoma                  |                   |
|   | Hepatocellular Adenoma           | Multiple          |
|   | Vacuolization Cytoplasmic        | Moderate          |
|   |                                  |                   |
|   |                                  |                   |
|   |                                  |                   |
|   |                                  |                   |
|   |                                  |                   |
| * Lung  | Alveolar/Bronchiolar Adenoma     |                   |
| * Lymph Node, Mandibular  | Hyperplasia                      | Lymphoid, Minimal |
| * Preputial Gland   | Cyst                             | Moderate          |
|   | Inflammation                     | Chronic, Moderate |
| * Spleen  | Hemangiosarcoma                  |                   |
|   | Hematopoietic Cell Proliferation | Minimal           |
|   |                                  |                   |
|   |                                  |                   |
|   |                                  |                   |
|   |                                  |                   |
| * Thyroid Gland   | Follicle                         | Degeneration      |
|   |                                  | Focal, Minimal    |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 126

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110170

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                            |                          |
|---------------------------|-----------------------------|----------------------------|--------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow              | * Brain                  |
| * Epididymis              | * Esophagus                 | * Eye                      | * Gallbladder            |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Lung                    | * Lymph Node, Mandibular    | * Mammary Gland            | * Nose                   |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland          | * Preputial Gland        |
| * Prostate                | * Seminal Vesicle           | * Skin                     | * Stomach, Forestomach   |
| * Stomach, Glandular      | * Testes                    | * Thymus                   | * Trachea                |
| * Urinary Bladder         |                             |                            |                          |

MISSING

- \* Intestine Small, Ileum

OBSERVATIONS

- |                          |   |                           |                      |
|--------------------------|---|---------------------------|----------------------|
| * Adrenal Cortex         | Subcapsular                                 | Adenoma                   |                      |
|                          |   | Hypertrophy               | Focal, Mild          |
| * Kidney                 |   | Nephropathy               | Minimal              |
| * Liver                  |   | Hepatocellular Adenoma    | Multiple             |
|                          | Hepatocyte                                  | Vacuolization Cytoplasmic | Marked               |
|                          | [ Hepatocellular Adenoma TGLs = 1-21,2-22 ] |                           |                      |
| * Lymph Node, Mesenteric |   | Hemorrhage                | Mild                 |
| * Salivary Glands        |   | Infiltration Cellular     | Lymphocyte, Moderate |
| * Spleen                 | Lymph Follic                                | Hyperplasia               | Mild                 |
| * Thyroid Gland          | Follicle                                    | Degeneration              | Focal, Minimal       |

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 127

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testes                  | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

OBSERVATIONS

- |                   |  |                                   |                   |
|-------------------|--|-----------------------------------|-------------------|
| * Adrenal Cortex  |  | Accessory Adrenal Cortical Nodule | Moderate          |
|                   | Subcapsular  | Adenoma                           |                   |
|                   | Subcapsular  | Hyperplasia                       | Mild              |
|                   |  | Hypertrophy                       | Focal, Minimal    |
| * Kidney          |  | Infarct                           | Minimal           |
|                   |  | Nephropathy                       | Minimal           |
| * Liver           |  | Clear Cell Focus                  |                   |
|                   |  | Hepatocellular Adenoma            |                   |
|                   |  | Hepatocellular Carcinoma          |                   |
|                   | Hepatocyte   | Vacuolization Cytoplasmic         | Mild              |
|                   | Note: HEPATOCELLULAR CARCINOMA IS QUITE SMALL (SLIDE 6).<br>[ Hepatocellular Adenoma TGLs = 1-21 ] |                                   |                   |
| * Preputial Gland |  | Cyst                              | Moderate          |
|                   |  | Inflammation                      | Chronic, Moderate |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 128

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 664  
 HISTO: 110172

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Brain                   | * 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                    |
| * Mammary Gland          | * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           |
| * Preputial Gland        | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Stomach, Forestomach     | * Testes                  | * Thymus                    |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

AUTO PRECLUDES DIAG.

- \* Gallbladder

OBSERVATIONS

- |                          |  |                    |
|--------------------------|--|--------------------|
| * Adrenal Cortex         | Accessory Adrenal Cortical Nodule            | Moderate           |
|                          | Hyperplasia                                  | Focal, Minimal     |
| * Bone Marrow            | Hyperplasia                                  | Moderate           |
| * Liver                  | Hepatocellular Carcinoma                     | Multiple           |
|                          | [ Hepatocellular Carcinoma TGLs = 1-6,3-21 ] |                    |
| * Lung                   | Hepatocellular Carcinoma                     | Metastatic (Liver) |
| * Lymph Node, Mandibular | Hyperplasia                                  | Lymphoid, Mild     |
| * Lymph Node, Mesenteric | Hyperplasia                                  | Lymphoid, Mild     |
| * Nose                   | Foreign Body                                 |                    |
| * Spleen                 | Hematopoietic Cell Proliferation             | Marked             |
| * Stomach, Glandular     | Erosion                                      | Moderate           |
|                          | [ Erosion TGLs = 4-4 ]                       |                    |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 129

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                   | * Pancreas                 |
| * Parathyroid Gland       | * Pituitary Gland           | * Preputial Gland        | * Prostate                 |
| * Salivary Glands         | * Seminal Vesicle           | * Skin                   | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Testes                 | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |  |                            |                              |                |
|--|----------------------------|------------------------------|----------------|
| * Adrenal Cortex                       |                            | Hypertrophy                  | Focal, Minimal |
| * Islets, Pancreatic                   |                            | Hyperplasia                  | Minimal        |
| * Kidney                               |                            | Cyst                         | Moderate       |
|  |                            | Metaplasia                   | Osseous, Mild  |
|  |                            | Nephropathy                  | Minimal        |
| * Liver                                |                            | Clear Cell Focus             |                |
|  |                            | Hepatocellular Adenoma       | Multiple       |
|  |                            | Hepatocellular Carcinoma     |                |
|  | Hepatocyte                 | Vacuolization Cytoplasmic    | Moderate       |
| Note: CLEAR CELL FOCUS IS ON SLIDE 24. |                            |                              |                |
|  | [ Hepatocellular Adenoma   | TGLs = 1-21,2-22,4-23,5-24 ] |                |
|  | [ Hepatocellular Carcinoma | TGLs = 3-6 ]                 |                |
| * Lung                                 |                            | Alveolar/Bronchiolar Adenoma |                |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 130

TMT: 5  
DOSE: 6 MG/KG

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 730  
HISTO: 110174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Moderate
* Spleen	Lymph Follic	Hyperplasia	Minimal

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 131

TMT: 5  
DOSE: 6 MG/KG

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 730  
HISTO: 110175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Thymus

INSUFFICIENT TISSUE

\* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow	Hyperplasia	Mild
* Kidney	Infarct	Minimal
	Nephropathy	Minimal
* Liver	Hepatocellular Adenoma	Multiple
	Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLs = 2,3-6 ]	
	[ Hepatocellular Carcinoma TGLs = 1-21 ]	
* Spleen	Hematopoietic Cell Proliferation	Minimal

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 132

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Mammary Gland	* Pancreas	* Pituitary Gland
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea		

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
	Subcapsular	Hyperplasia	Moderate
* Bone Marrow		Hyperplasia	Mild
		Lymphoma Malignant	
* Harderian Gland		Adenoma	
* Heart		Lymphoma Malignant	
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Lymphoma Malignant	
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
	[ Clear Cell Focus TGLs = 3-6 ]		
	[ Hepatocellular Adenoma TGLs = 2-21,4-22 ]		
* Lung		Metaplasia	Osseous, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric		Angiectasis	Mild
* Nose		Fibroma	
* Preputial Gland		Inflammation	Chronic, Moderate
		Lymphoma Malignant	
* Prostate		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 132

TMT: 5

SEX: Male

DAY ON TEST: 729

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110176

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant	Moderate
	[ Hematopoietic Cell Proliferation TGLs = 1-6 ] [ Lymphoma Malignant TGLs = 1-6 ]		
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Urinary Bladder		Lymphoma Malignant	

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 133

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Moribund Sacrifice

DAY ON TEST: 704  
 HISTO: 110177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Kidney		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Nephropathy	Mild
[ Alveolar/Bronchiolar Carcinoma	TGLs = 2-24 ]		
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
Note: POSSIBLE METASTASIS OF LUNG ALVEOLAR/BRONCHIOLAR CARCINOMA WITHIN THE HEPATOCELLULAR CARCINOMA ON SLIDE 22.			
[ Hepatocellular Adenoma	TGLs = 5-23 ]		
[ Hepatocellular Carcinoma	TGLs = 4-22 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
Note: THE ALVEOLAR/BRONCHIOLAR CARCINOMAS ARE HIGHLY ANAPLASTIC (MESENCHYMAL DIFFERENTIATION).			
[ Alveolar/Bronchiolar Carcinoma	TGLs = 7,8,9,10,11,12,13-2 ]		
* Lymph Node, Mandibular		Atrophy	Mild
* Lymph Node, Mesenteric		Atrophy	Mild
Mesentery		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
[ Alveolar/Bronchiolar Carcinoma	TGLs = 3-21 ]		
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen	Lymph Follic	Atrophy	Moderate
		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 133

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 704

**DOSE:** 6 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 110177

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma  
CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 134

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Stomach, Forestomach    | * Testes                    | * Thymus                 | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

OBSERVATIONS

- |                      |   |                                  |                |
|----------------------|---|----------------------------------|----------------|
| * Adrenal Cortex     |   | Hypertrophy                      | Focal, Mild    |
| * Islets, Pancreatic |   | Hyperplasia                      | Minimal        |
| * Kidney             | Renal Tubule                                    | Adenoma                          |                |
|                      |   | Nephropathy                      | Minimal        |
| * Liver              |   | Clear Cell Focus                 |                |
|                      | Hepatocyte                                      | Hepatocellular Adenoma           | Multiple       |
|                      |   | Vacuolization Cytoplasmic        | Moderate       |
|                      | [ Clear Cell Focus TGLs = 3-6 ]                 |                                  |                |
|                      | [ Hepatocellular Adenoma TGLs = 1-21,2-22,3-6 ] |                                  |                |
| * Lung               |   | Alveolar/Bronchiolar Carcinoma   |                |
|                      | [ Alveolar/Bronchiolar Carcinoma TGLs = 5-24 ]  |                                  |                |
| Skeletal Muscle      |   | Hemangiosarcoma                  |                |
|                      | [ Hemangiosarcoma TGLs = 4-23 ]                 |                                  |                |
| * Spleen             |   | Hemangiosarcoma                  |                |
|                      |   | Hematopoietic Cell Proliferation | Mild           |
| * Stomach, Glandular |   | Cyst                             | Moderate       |
| * Thyroid Gland      | Follicle  | Degeneration                     | Focal, Minimal |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**ANIMAL NUM:** 135

**TMT:** 5  
**DOSE:** 6 MG/KG

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

**DAY ON TEST:** 729  
**HISTO:** 110179

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Brain                    | * Epididymis              |
| * Esophagus                 | * Eye                    | * Gallbladder              | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular  |
| * Mammary Gland             | * Nose                   | * Pancreas                 | * Parathyroid Gland       |
| * Pituitary Gland           | * Preputial Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Stomach, Glandular     | * Testes                   | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

**OBSERVATIONS**

- |  |   |                                  |                    |
|--|---|----------------------------------|--------------------|
| * Adrenal Cortex   |   | Hyperplasia                      | Focal, Mild        |
| * Bone Marrow  |   | Hyperplasia                      | Moderate           |
| * Islets, Pancreatic   |   | Adenoma                          |                    |
| * Kidney   |   | Nephropathy                      | Moderate           |
| * Liver  |   | Hepatocellular Adenoma           |                    |
|  | Kupffer Cell                                    | Hepatocellular Carcinoma         | Multiple           |
|  |   | Hyperplasia                      | Moderate           |
| Note: HEPATOCELLULAR CARCINOMAS ARE ON SLIDES 6, 21, 22, AND 23.<br>[ Hepatocellular Carcinoma TGLs = 3-21,5-22,6-23 ] |   |                                  |                    |
| * Lung   |   | Alveolar/Bronchiolar Carcinoma   |                    |
|  |   | Hepatocellular Carcinoma         | Metastatic (Liver) |
|  | [ Alveolar/Bronchiolar Carcinoma TGLs = 7-2 ]   |                                  |                    |
| * Lymph Node, Mesenteric   |   | Lymphoma Malignant               |                    |
|  | [ Lymphoma Malignant TGLs = 4-5 ]               |                                  |                    |
| * Skin   | Epidermis                                       | Hyperplasia                      | Minimal            |
| * Spleen   |   | Hematopoietic Cell Proliferation | Moderate           |
|  | [ Hematopoietic Cell Proliferation TGLs = 2-6 ] |                                  |                    |
| * Stomach, Forestomach   | Epithelium                                      | Hyperplasia                      | Marked             |
|  | [ Hyperplasia TGLs = 8-24 ]                     |                                  |                    |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 136

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Harderian Gland		Adenoma	
* Intestine Small, Ileum		Carcinoma	
* Kidney		Cyst	Moderate
		Nephropathy	Mild
* Liver		Mixed Cell Focus	
	[ Mixed Cell Focus TGLs = 2-21 ]		
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Moderate
	[ Hemangiosarcoma TGLs = 1-6 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 137

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Cyst	Moderate
		Infiltration Cellular	Lymphocyte, Moderate
		Nephropathy	Moderate
* Liver		Hepatocellular Carcinoma	Multiple
		Inflammation	Chronic Active, Moderate
		Necrosis	Focal, Mild
	[ Hepatocellular Carcinoma TGLs = 2-21,3-22 ]		
* Lymph Node, Mesenteric		Angiectasis	Moderate
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Forestomach		Squamous Cell Papilloma	
* Testes	Germinal Epith	Atrophy	Minimal



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 138

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Mild
		Mixed Cell Focus	
		Necrosis	Focal, Minimal
	[ Hepatocellular Adenoma TGLs = 1-21 ]		
	[ Hepatocellular Carcinoma TGLs = 2-22 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 140

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Infarct	Moderate
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[ Hepatocellular Adenoma TGLs = 1-21 ]		
	[ Hepatocellular Carcinoma TGLs = 2-22 ]		
* Lung		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
* Pancreas		Basophilic Focus	
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 141

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Parathyroid Gland       | * Pituitary Gland           | * Preputial Gland        | * Prostate                 |
| * Seminal Vesicle         | * Skin                      | * Stomach, Glandular     | * Testes                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

MISSING

- \* Thymus

OBSERVATIONS

- |  |                            |                                  |                    |
|--|----------------------------|----------------------------------|--------------------|
| * Bone Marrow  |                            | Hyperplasia                      | Mild               |
| * Kidney   |                            | Nephropathy                      | Minimal            |
| * Liver  |                            | Eosinophilic Focus               |                    |
|  |                            | Hepatocellular Adenoma           |                    |
|  |                            | Hepatocellular Carcinoma         | Multiple           |
|  |                            | Necrosis                         | Focal, Mild        |
| Note: THE HEPATOCELLULAR CARCINOMA ON SLIDE 22 HAS A LOCALIZED AREA OF MARKED ANGIECTASIS. |                            |                                  |                    |
|  | [ Hepatocellular Adenoma   | TGLs = 1-6 ]                     |                    |
|  | [ Hepatocellular Carcinoma | TGLs = 1-6,2-21,3-22,4-23 ]      |                    |
|  | [ Necrosis                 | TGLs = 1-6 ]                     |                    |
| * Lung   |                            | Hepatocellular Carcinoma         | Metastatic (Liver) |
|  | Alveolar Epith             | Hyperplasia                      | Minimal            |
| * Nose   |                            | Inflammation                     | Chronic, Minimal   |
| * Pancreas   | Acinus                     | Hyperplasia                      | Focal, Minimal     |
| * Salivary Glands  |                            | Infiltration Cellular            | Lymphocyte, Mild   |
| * Spleen   |                            | Hematopoietic Cell Proliferation | Mild               |
| * Stomach, Forestomach   | Epithelium                 | Hyperplasia                      | Moderate           |
|  |                            | Inflammation                     | Chronic, Moderate  |

Note: THE FORESTOMACH HYPERPLASIA AND INFLAMMATION ARE MAINLY VISIBLE ON SLIDE 4.

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 141

**TMT:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 6 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 110185

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLs = 5-24 ]

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TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 142

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

\* Gallbladder

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Islets, Pancreatic		Hyperplasia	Marked
* Kidney		Cyst	Moderate
		Infiltration Cellular	Lymphocyte, Mild
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLs = 1-6 ]		
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Prostate		Infiltration Cellular	Lymphocyte, Moderate
* Spleen	Lymph Follicle	Hyperplasia	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 143

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110187

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLs = 3-21 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLs = 4-2 ]		
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Preputial Gland		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLs = 2-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
	Note: THE FORESTOMACH LESIONS ARE NEAR THE LIMITING RIDGE.		
* Thymus		Atrophy	Mild

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 144

TMT: 5  
DOSE: 6 MG/KG

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 731  
HISTO: 110188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen	Lymph Follic	Hyperplasia	Minimal



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 145

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                          |                           |
|-----------------------------|--------------------------|--------------------------|---------------------------|
| * Bone                      | * Bone Marrow            | * Brain                  | * Epididymis              |
| * Esophagus                 | * Eye                    | * Gallbladder            | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Lung                   | * Lymph Node, Mandibular  |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                   | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland        | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                   | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Testes                 | * Thymus                 | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                          |                           |

OBSERVATIONS

- |  |            |                                  |  |
|--|------------|----------------------------------|--|
| * Adrenal Cortex                           |            | Hypertrophy                      | Focal, Minimal                             |
| * Adrenal Medulla                          |            | Hyperplasia                      | Mild                                       |
| * Intestine Small, Jejunum                 |            | Carcinoma                        |  |
| * Islets, Pancreatic                       |            | Hyperplasia                      | Minimal                                    |
| * Kidney                                   |            | Cyst                             | Moderate                                   |
|  |            | Nephropathy                      | Minimal                                    |
| * Liver                                    |            | Clear Cell Focus                 |  |
|  |            | Hepatocellular Adenoma           | Multiple                                   |
|  |            | Mixed Cell Focus                 |  |
|  | Hepatocyte | Vacuolization Cytoplasmic        | Moderate                                   |
| Note: THE MIXED CELL FOCUS IS ON SLIDE 22. |            |                                  |  |
|  |            |                                  | [ Clear Cell Focus TGLs = 3-22 ]           |
|  |            |                                  | [ Hepatocellular Adenoma TGLs = 1-21,2-6 ] |
| * Spleen                                   |            | Hematopoietic Cell Proliferation | Moderate                                   |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 146

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 675  
 HISTO: 110190

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                    | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Heart                  | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Mammary Gland            | * Nose                    | * Pancreas                  |
| * Parathyroid Gland      | * Pituitary Gland          | * Preputial Gland         | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Testes                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

**MISSING**

- |               |                          |          |
|---------------|--------------------------|----------|
| * Gallbladder | * Lymph Node, Mesenteric | * Thymus |
|---------------|--------------------------|----------|

**AUTO PRECLUDES DIAG.**

- \* Intestine Large, Cecum

**OBSERVATIONS**

- |   |                                  |                 |
|---|----------------------------------|-----------------|
| * Bone Marrow   | Hyperplasia                      | Moderate        |
| * Kidney  | Cyst                             | Moderate        |
|   | Nephropathy                      | Moderate        |
| * Liver   | Eosinophilic Focus               |                 |
|   | Hepatocellular Carcinoma         | Multiple        |
|   | Mixed Cell Focus                 |                 |
|   | Necrosis                         | Focal, Moderate |
| <p>Note: EOSINOPHILIC FOCI ARE ON SLIDES 6 AND 22.<br/>         [ Hepatocellular Carcinoma TGLs = 1-21,2-22 ]</p> |                                  |                 |
| * Spleen  | Atrophy                          | Moderate        |
|   | Hematopoietic Cell Proliferation | Marked          |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 147

TMT: 5  
DOSE: 6 MG/KG

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 730  
HISTO: 110191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Thymus

OBSERVATIONS

* Kidney		Metaplasia	Osseous, Minimal
		Nephropathy	Minimal
* Liver	Hepatocyte	Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 2-21 ]	Vacuolization Cytoplasmic	Moderate
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLs = 3-2 ]		
* Preputial Gland		Inflammation	Chronic, Moderate
	[ Inflammation TGLs = 1-8 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 148

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Preputial Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testes                  | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

OBSERVATIONS

- |   |  |          |
|---|--|----------|
| * Bone Marrow   | Hyperplasia  | Moderate |
| * Kidney  | Nephropathy  | Mild     |
| * Liver   | Hemangiosarcoma                                    |          |
|   | Hepatocellular Carcinoma                           | Multiple |
|   | Mixed Cell Focus                                   |          |
| Note: HEPATOCELLULAR CARCINOMA AND HEMANGIOSARCOMA ALSO PRESENT ON SLIDE 6. |  |          |
|   | [ Hemangiosarcoma TGLs = 1-21,5-25,6-26 ]          |          |
|   | [ Hepatocellular Carcinoma TGLs = 2-22,3-23,4-24 ] |          |
| * Spleen  | Hematopoietic Cell Proliferation                   | Moderate |

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 149

TMT: 5  
 DOSE: 6 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Eye	Cornea	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Harderian Gland		Carcinoma	
	[ Carcinoma TGLs = 4-12 ]		
* Kidney		Metaplasia	Osseous, Moderate
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 1-21 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Foreign Body	
	[ Alveolar/Bronchiolar Carcinoma TGLs = 2,3-2 ]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 150

TMT: 5

SEX: Male

DAY ON TEST: 729

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	Tooth	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Lung	Infiltration Cellular	Histiocyte, Mild
[ Infiltration Cellular TGLs = 2-21 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 151

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Preputial Gland           | * Prostate               | * Seminal Vesicle          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

INSUFFICIENT TISSUE

- \* Bone

OBSERVATIONS

- |                   |  |                                  |                  |
|-------------------|--|----------------------------------|------------------|
| * Kidney          |  | Nephropathy                      | Minimal          |
| * Liver           |  | Hepatocellular Carcinoma         |                  |
|                   | [ Hepatocellular Carcinoma TGLs = 2-22 ] |                                  |                  |
| Mesentery         | Fat                                      | Necrosis                         | Mild             |
|                   | [ Necrosis TGLs = 1-21 ]                 |                                  |                  |
| * Salivary Glands |  | Infiltration Cellular            | Lymphocyte, Mild |
| * Spleen          |  | Hematopoietic Cell Proliferation | Mild             |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 152

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110196

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Carcinoma	Mild Focal, Mild
* Intestine Small, Jejunum [ Carcinoma TGLs = 1-23 ]			
* Kidney		Cyst Infiltration Cellular Metaplasia Nephropathy	Moderate Lymphocyte, Mild Osseous, Mild Mild
* Liver		Clear Cell Focus Hepatocellular Adenoma Hepatocellular Carcinoma	Multiple
Note: HEPATOCELLULAR ADENOMAS ARE PRESENT ON SLIDES 6 AND 21. CLEAR CELL FOCUS IS ON SLIDE 22.			
	[ Hepatocellular Adenoma TGLs = 2-21 ]		
	[ Hepatocellular Carcinoma TGLs = 3-22 ]		
* Nose		Inflammation	Chronic, Mild
* Preputial Gland		Cyst Inflammation	Moderate Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Cyst	Moderate

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 153

TMT: 7  
DOSE: 12 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 604  
HISTO: 110197

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Spleen	* Stomach, Glandular	

OBSERVATIONS

* Bone Marrow	Hyperplasia	Moderate
* Liver	Hepatocellular Carcinoma	

[ Hepatocellular Carcinoma TGLs = 1-21 ]

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 154

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110198

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland	* Thymus	* Thyroid Gland
---------------------	----------	-----------------

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Intestine Small, Duodenum		Ulcer	Mild
* Islets, Pancreatic		Atrophy	Marked
* Kidney		Infiltration Cellular	Lymphocyte, Moderate
		Nephropathy	Moderate
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLs = 2-21 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Preputial Gland		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 155

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Brain                   | * 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      | * Lung                      |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    | * Pancreas                  |
| * Parathyroid Gland      | * Pituitary Gland          | * Preputial Gland         | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Testes                   | * Thymus                  | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

INSUFFICIENT TISSUE

- \* Gallbladder

OBSERVATIONS

- |                          |   |                                  |                  |
|--------------------------|---|----------------------------------|------------------|
| * Bone                   | Cranium   | Osteopetrosis                    | Moderate         |
|                          | [ Osteopetrosis TGLs = 5-24 ]                   |                                  |                  |
| * Bone Marrow            |   | Hyperplasia                      | Mild             |
| * Kidney                 |   | Cyst                             | Moderate         |
|                          |   | Metaplasia                       | Osseous, Minimal |
|                          |   | Nephropathy                      | Minimal          |
| * Liver                  |   | Clear Cell Focus                 |                  |
|                          |   | Hepatocellular Adenoma           | Multiple         |
|                          |   | Hepatocellular Carcinoma         |                  |
|                          |   | Mixed Cell Focus                 |                  |
|                          | Hepatocyte                                      | Vacuolization Cytoplasmic        | Mild             |
|                          | [ Clear Cell Focus TGLs = 2-6 ]                 |                                  |                  |
|                          | [ Hepatocellular Adenoma TGLs = 2-6,3-22,4-23 ] |                                  |                  |
|                          | [ Hepatocellular Carcinoma TGLs = 1-21 ]        |                                  |                  |
|                          | [ Mixed Cell Focus TGLs = 2-6 ]                 |                                  |                  |
|                          | [ Vacuolization Cytoplasmic TGLs = 2-6 ]        |                                  |                  |
| * Lymph Node, Mandibular |   | Hyperplasia                      | Lymphoid, Mild   |
| * Spleen                 |   | Hematopoietic Cell Proliferation | Moderate         |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 155

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 12 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 110199

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

Follicle

Cyst

Moderate

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TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 156

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lung                    | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   |
| * Trachea                 | * Urinary Bladder           |                          |                            |

OBSERVATIONS

- |                      |  |                           |                |
|----------------------|--|---------------------------|----------------|
| * Adrenal Cortex     |  | Hypertrophy               | Focal, Mild    |
| * Islets, Pancreatic |  | Adenoma                   |                |
| * Kidney             |  | Nephropathy               | Mild           |
| * Liver              |  | Clear Cell Focus          |                |
|                      | Hepatocyte                               | Hepatocellular Adenoma    | Multiple       |
|                      | [ Clear Cell Focus TGLs = 2-6 ]          | Vacuolization Cytoplasmic | Moderate       |
|                      | [ Hepatocellular Adenoma TGLs = 2-6 ]    |                           |                |
|                      | [ Vacuolization Cytoplasmic TGLs = 2-6 ] |                           |                |
| * Preputial Gland    |  | Cyst                      | Moderate       |
|                      | [ Cyst TGLs = 1-8 ]                      |                           |                |
| * Thymus             |  | Cyst                      | Moderate       |
| * Thyroid Gland      | Follicle                                 | Degeneration              | Focal, Minimal |

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 157

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 619  
 HISTO: 110201

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
---------------	-----------------------------	--------------------------	----------------------------

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Liver		Eosinophilic Focus	
		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLs = 3-21 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	[ Hepatocellular Carcinoma TGLs = 4-2,5-22,6-23 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLs = 1-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 158

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110202

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Preputial Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testes                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

OBSERVATIONS

- |               |   |                                  |          |
|---------------|---|----------------------------------|----------|
| * Bone Marrow |   | Hyperplasia                      | Mild     |
| * Kidney      |   | Nephropathy                      | Minimal  |
| * Liver       |   | Clear Cell Focus                 |          |
|               | Hepatocyte                                  | Hepatocellular Adenoma           | Multiple |
|               | [ Clear Cell Focus TGLs = 1-6 ]             | Vacuolization Cytoplasmic        | Moderate |
|               | [ Hepatocellular Adenoma TGLs = 2-21,3-22 ] |                                  |          |
|               | [ Vacuolization Cytoplasmic TGLs = 1-6 ]    |                                  |          |
| * Spleen      |   | Hematopoietic Cell Proliferation | Mild     |
| * Thymus      |   | Cyst                             | Moderate |

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 159

TMT: 7

SEX: Male

DAY ON TEST: 729

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma	
		Hypertrophy	Focal, Mild
* Liver		Hepatocellular Carcinoma	
		Mixed Cell Focus	
	[ Hepatocellular Carcinoma TGLs = 1-21 ]		
	[ Mixed Cell Focus TGLs = 2-22 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Squamous Cell Papilloma	
	[ Squamous Cell Papilloma TGLs = 3-23 ]		



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 160

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hemangiosarcoma	
		Hepatocellular Adenoma	Multiple
	[ Hemangiosarcoma TGLs = 2-21 ]		
	[ Hepatocellular Adenoma TGLs = 1-6,3-22 ]		
* Lung	Alveolar Epith	Hyperplasia	Mild
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
		Hemorrhage	Minimal

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 161

TMT: 7

SEX: Male

DAY ON TEST: 729

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Gallbladder

OBSERVATIONS

* Kidney	Cyst	Moderate
	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLs = 1-2 ]		
* Preputial Gland	Cyst	Moderate
	Inflammation	Chronic, Mild
* Stomach, Glandular	Mast Cell Tumor Malignant	
Note: TGL 2 IS POSITIVE FOR METACHROMATIC GRANULES WITH TOLUIDINE BLUE STAIN.		
[ Mast Cell Tumor Malignant TGLs = 2-4 ]		

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 162

TMT: 7

SEX: Male

DAY ON TEST: 730

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Islets, Pancreatic	Hyperplasia	Minimal
* Kidney	Cyst	Moderate
	Infarct	Mild
	Nephropathy	Minimal
* Liver	Clear Cell Focus	
	Hepatocellular Adenoma	
	Hepatocellular Carcinoma	
	Necrosis	Focal, Minimal
	Hepatocyte	
	Vacuolization Cytoplasmic	Mild
Note: CLEAR CELL FOCI ARE PRESENT ON SLIDES 6, 21, AND 22.		
[ Clear Cell Focus TGLs = 2-6,3-22 ]		
[ Hepatocellular Adenoma TGLs = 1-21 ]		
[ Hepatocellular Carcinoma TGLs = 4-23 ]		
* Lymph Node, Mesenteric	Hematopoietic Cell Proliferation	Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 163

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 608  
 HISTO: 110207

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Rectum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Kidney	Cyst	Moderate
* Liver	Hepatocellular Adenoma	Multiple
	Hepatocellular Carcinoma	
[ Hepatocellular Adenoma TGLs = 1-21,2-22 ]		
[ Hepatocellular Carcinoma TGLs = 3-23 ]		
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLs = 5-2 ]		
* Lymph Node, Mandibular	Pigmentation	Moderate
* Lymph Node, Mesenteric	Atrophy	Mild
* Spleen	Hematopoietic Cell Proliferation	Mild
* Thymus	Atrophy	Moderate

Note: THYMUS IS PRESENT ON SLIDES 2 AND 3.

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma  
 CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 164

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Bone Marrow              |
| * Brain                   | * Epididymis                | * Esophagus              | * Eye                      |
| * Gallbladder             | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Kidney                  | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testes                  | * Thymus                    | * Trachea                | * Urinary Bladder          |

OBSERVATIONS

- |  |  |                           |                |
|--|--|---------------------------|----------------|
| * Harderian Gland<br>[ Adenoma TGLs = 6-12 ] |  | Adenoma                   |                |
| * Islets, Pancreatic                         |  | Hyperplasia               | Mild           |
| * Liver                                      |  | Clear Cell Focus          |                |
|  | Hepatocyte                                       | Hepatocellular Adenoma    | Multiple       |
|  | [ Clear Cell Focus TGLs = 2-6 ]                  | Vacuolization Cytoplasmic | Moderate       |
|  | [ Hepatocellular Adenoma TGLs = 3-21,4-22,5-23 ] |                           |                |
| * Preputial Gland<br>[ Cyst TGLs = 1-8 ]     |  | Cyst                      | Moderate       |
| * Thyroid Gland                              | Follicle   | Degeneration              | Focal, Minimal |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 165

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                           |                          |                            |
|--------------------------|---------------------------|--------------------------|----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla         | * Bone                   | * Bone Marrow              |
| * Brain                  | * Epididymis              | * Esophagus              | * Eye                      |
| * Gallbladder            | * Harderian Gland         | * Heart                  | * Intestine Large, Cecum   |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic     | * Lung                    | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland          | * Nose                    | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland        | * Preputial Gland         | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle        | * Skin                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testes                 | * Thymus                  | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder        |                           |                          |                            |

OBSERVATIONS

- |  |  |          |
|--|--|----------|
| * Intestine Small, Duodenum            | Adenoma                                |          |
| * Kidney                               | Nephropathy                            | Minimal  |
| * Liver                                | Basophilic Focus                       |          |
|  | Clear Cell Focus                       |          |
|  | Hemorrhage                             | Mild     |
|  | Hepatocellular Adenoma                 |          |
|  | Mixed Cell Focus                       |          |
|  | Vacuolization Cytoplasmic              | Moderate |
|  | Hepatocyte                             |          |
| Note: CLEAR CELL FOCUS IS ON SLIDE 21. |  |          |
|  | [ Hemorrhage TGLs = 1-21 ]             |          |
|  | [ Hepatocellular Adenoma TGLs = 2-22 ] |          |
| * Spleen                               | Hematopoietic Cell Proliferation       | Moderate |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 166

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 652  
 HISTO: 110210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Gallbladder

AUTO PRECLUDES DIAG.

\* Intestine Small, Duodenum      \* Intestine Small, Jejunum

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
		Necrosis	Focal, Moderate
	[ Hepatocellular Carcinoma TGLs = 3-22 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 2-21 ]		
* Parathyroid Gland		Cyst	Moderate
* Preputial Gland		Cyst	Moderate
	[ Cyst TGLs = 1-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH      - Liver    Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 167

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110211

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Preputial Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   |
| * Thymus                  | * Trachea                   | * Urinary Bladder        |                            |

OBSERVATIONS

- |                      |                                       |                              |                 |
|----------------------|---------------------------------------|------------------------------|-----------------|
| * Adrenal Cortex     | Subcapsular                           | Adenoma                      |                 |
|                      |                                       | Hyperplasia                  | Focal, Minimal  |
|                      |                                       | Hypertrophy                  | Focal, Mild     |
| * Islets, Pancreatic |                                       | Hyperplasia                  | Moderate        |
| * Kidney             |                                       | Nephropathy                  | Minimal         |
| * Liver              |                                       | Clear Cell Focus             |                 |
|                      |                                       | Hepatocellular Adenoma       | Multiple        |
|                      | [ Clear Cell Focus TGLs = 1-6 ]       |                              |                 |
|                      | [ Hepatocellular Adenoma TGLs = 1-6 ] |                              |                 |
| * Lung               |                                       | Alveolar/Bronchiolar Adenoma |                 |
| * Thyroid Gland      | Follicle                              | Degeneration                 | Focal, Moderate |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 168

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Moribund Sacrifice

DAY ON TEST: 677  
 HISTO: 110212

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* 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, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mesenteric	* Thymus
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma	
* Bone Marrow		Hyperplasia	Marked
* Skin		Edema	Mild
	Epidermis	Hyperplasia	Marked
		Ulcer	Marked
	[ Hyperplasia TGLs = 2-21 ]		
	[ Ulcer TGLs = 2-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLs = 3-6,4-22 ]		
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

PRIMARY CAUSE OF DEATH - Skin Ulcer

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 169

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110213

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Epididymis                | * Esophagus              |
| * Eye                      | * Gallbladder             | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney                  | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Nose                    | * Parathyroid Gland         | * Pituitary Gland        |
| * Preputial Gland          | * Prostate                | * Salivary Glands           | * Seminal Vesicle        |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Testes                    | * Thyroid Gland          |
| * Trachea                  |                           |                             |                          |

MISSING

- \* Thymus

OBSERVATIONS

- |                      |   |                          |
|----------------------|---|--------------------------|
| * Adrenal Cortex     | Accessory Adrenal Cortical Nodule               | Moderate                 |
| * Bone Marrow        | Hyperplasia                                     | Marked                   |
| * Brain              | Necrosis  | Moderate                 |
| * Heart              | Cardiomyopathy                                  | Minimal                  |
| * Islets, Pancreatic | Hyperplasia                                     | Minimal                  |
| * Liver              | Hepatocellular Carcinoma                        | Multiple                 |
|                      | Inflammation                                    | Chronic Active, Moderate |
|                      | [ Hepatocellular Carcinoma TGLs = 6-23,7-24 ]   |                          |
|                      | [ Inflammation TGLs = 5-22 ]                    |                          |
| * Lung               | Alveolar/Bronchiolar Adenoma                    |                          |
|                      | Hepatocellular Carcinoma                        | Metastatic (Liver)       |
|                      | [ Alveolar/Bronchiolar Adenoma TGLs = 8-25 ]    |                          |
| * Pancreas           | Atrophy   | Mild                     |
| * Skin               | Ulcer   | Marked                   |
|                      | [ Ulcer TGLs = 1-21 ]                           |                          |
| * Spleen             | Hematopoietic Cell Proliferation                | Marked                   |
|                      | [ Hematopoietic Cell Proliferation TGLs = 4-6 ] |                          |
| * Urinary Bladder    | Dilatation                                      | Marked                   |
|                      | [ Dilatation TGLs = 3-8 ]                       |                          |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 170

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Moribund Sacrifice

DAY ON TEST: 691  
 HISTO: 110214

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Testes
* Trachea	* Urinary Bladder		

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Adenoma	
* Bone Marrow		Hemangiosarcoma	
		Hyperplasia	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Renal Tubule	Nephropathy	Mild
		Pigmentation	Moderate
* Liver		Eosinophilic Focus	
		Necrosis	Focal, Moderate
Note: FOCAL NECROSIS ON SLIDE 22 INCLUDES EXTENSIVE MINERALIZATION AND HAS RESULTED IN AN ADHESION WITH THE PANCREAS.			
Note: EOSINOPHILIC FOCI ARE ON SLIDES 6 AND 21. FOCAL NECROSIS IS PRESENT ON SLIDES 6 AND 22.			
[ Eosinophilic Focus TGLs = 2-21 ]			
[ Necrosis TGLs = 3-22 ]			
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Edema	Moderate
	Subcut Tiss	Hemangiosarcoma	
Note: TGL 4 SKIN IS SUBCUTANEOUS TISSUE ADJACENT TO SALIVARY GLANDS.			
[ Edema TGLs = 4-8,5-8,7-24 ]			
[ Hemangiosarcoma TGLs = 6-23 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 170

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 691

**DOSE:** 12 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 110214

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Stomach, Glandular

Epithelium

Metaplasia

Squamous, Minimal

\* Thyroid Gland

Follicle

Degeneration

Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

- Skin Subcut Tiss Hemangiosarcoma

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TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 171

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110215

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy Metaplasia	Moderate Focal, Minimal Osseous, Moderate
* Kidney			
Note: THE OSSEOUS METAPLASIA IS IN A SECTION DETACHED FROM THE MAIN PORTION OF THE LEFT KIDNEY.			
* Liver	Hepatocyte	Clear Cell Focus Hepatocellular Adenoma Vacuolization Cytoplasmic	Moderate
Note: CLEAR CELL FOCUS IS ON SLIDE 21. [ Hepatocellular Adenoma TGLs = 1-21 ]			
* Lung		Alveolar/Bronchiolar Adenoma	

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 172

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Moribund Sacrifice

DAY ON TEST: 579  
 HISTO: 110216

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                          |                           |
|-----------------------------|--------------------------|--------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Brain                  | * Epididymis              |
| * Esophagus                 | * Eye                    | * Gallbladder            | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic     | * Lymph Node, Mandibular  |
| * Mammary Gland             | * Nose                   | * Pancreas               | * Parathyroid Gland       |
| * Pituitary Gland           | * Preputial Gland        | * Prostate               | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Stomach, Forestomach   | * Stomach, Glandular      |
| * Testes                    | * Thymus                 | * Thyroid Gland          | * Trachea                 |
| * Urinary Bladder           |                          |                          |                           |

OBSERVATIONS

- |   |  |                          |
|---|--|--------------------------|
| * Adrenal Cortex                                | Hypertrophy                            | Focal, Minimal           |
| * Bone Marrow                                   | Hyperplasia                            | Mild                     |
| * Intestine Small, Jejunum                      | Inflammation                           | Chronic Active, Moderate |
| Note: THE INFLAMMATION INVOLVES A PEYERS PATCH. |  |                          |
| * Kidney  | Nephropathy                            | Minimal                  |
| * Liver   | Basophilic Focus                       |                          |
|   | Clear Cell Focus                       |                          |
|   | Eosinophilic Focus                     |                          |
|   | Hepatocellular Adenoma                 |                          |
| Note: CLEAR CELL FOCUS IS ON SLIDE 22.          |  |                          |
|   | [ Eosinophilic Focus TGLs = 2-6 ]      |                          |
|   | [ Hepatocellular Adenoma TGLs = 3-22 ] |                          |
| * Lung  | Alveolar/Bronchiolar Adenoma           |                          |
| * Lymph Node, Mesenteric                        | Hyperplasia                            | Lymphoid, Mild           |
|   | Infiltration Cellular                  | Plasma Cell, Mild        |
| Penis   | Cyst                                   | Moderate                 |
|   | [ Cyst TGLs = 1-21 ]                   |                          |
| * Spleen  | Hematopoietic Cell Proliferation       | Mild                     |

PRIMARY CAUSE OF DEATH - UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 173

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110217

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Preputial Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Testes                 | * Thymus                   |
| * Trachea                 | * Urinary Bladder           |                          |                            |

MISSING

- \* Pituitary Gland

OBSERVATIONS

- |                  |   |  |                |
|------------------|---|--|----------------|
| * Adrenal Cortex | Subcapsular   | Adenoma<br>Hypertrophy                       | Focal, Minimal |
| * Kidney         |   | Nephropathy                                  | Minimal        |
| * Liver          |   | Eosinophilic Focus<br>Hepatocellular Adenoma |                |
|                  | [ Eosinophilic Focus TGLs = 2-21 ]<br>[ Hepatocellular Adenoma TGLs = 1-6 ] |  |                |
| * Lung           | Alveolar/Bronchiolar Carcinoma TGLs = 3-2,4-2 ]                             | Alveolar/Bronchiolar Carcinoma               | Multiple       |
| * Spleen         | Lymph Follicle  | Hyperplasia                                  | Minimal        |
| * Thyroid Gland  | Follicle  | Degeneration                                 | Focal, Mild    |

Animal Note: TGL 5 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 174

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110218

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Pituitary Gland          |
| * Prostate                | * Salivary Glands           | * Seminal Vesicle        | * Skin                     |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   |
| * Thymus                  | * Trachea                   | * Urinary Bladder        |                            |

OBSERVATIONS

- |  |                |                           |                 |
|--|----------------|---------------------------|-----------------|
| * Adrenal Cortex   |                | Hyperplasia               | Focal, Minimal  |
| * Kidney   |                | Cyst                      | Moderate        |
|  |                | Infarct                   | Mild            |
|  |                | Nephropathy               | Minimal         |
| * Liver  |                | Hepatocellular Adenoma    | Multiple        |
|  | Hepatocyte     | Vacuolization Cytoplasmic | Moderate        |
| Note: HEPATOCELLULAR ADENOMAS ARE ON SLIDES 6 AND 22.<br>[ Hepatocellular Adenoma TGLs = 3-22 ]  |                |                           |                 |
| Mesentery  |                | Hemangioma                |                 |
|  | Fat            | Necrosis                  | Mild            |
| Note: MESENTERIC FAT NECROSIS INCLUDES ADHESION OF MESENTERIC FAT TO LIVER (TGL 2).<br>[ Hemangioma TGLs = 1-21 ]<br>[ Necrosis TGLs = 2-4 ] |                |                           |                 |
| * Parathyroid Gland  |                | Cyst                      | Moderate        |
| * Preputial Gland  |                | Inflammation              | Chronic, Mild   |
| * Thyroid Gland  | Follicular Cel | Adenoma                   |                 |
|  | Follicle       | Degeneration              | Focal, Moderate |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 175

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110219

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                          |                           |                             |
|--------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                   | * Brain                   | * Epididymis                |
| * Eye                    | * Gallbladder            | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic     | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Nose                   | * Pancreas                | * Pituitary Gland           |
| * Prostate               | * Salivary Glands        | * Seminal Vesicle         | * Skin                      |
| * Stomach, Forestomach   | * Stomach, Glandular     | * Testes                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder        |                           |                             |

MISSING

- |             |          |
|-------------|----------|
| * Esophagus | * Thymus |
|-------------|----------|

OBSERVATIONS

- |                             |             |                                  |                   |
|-----------------------------|-------------|----------------------------------|-------------------|
| * Adrenal Cortex            | Subcapsular | Hyperplasia                      | Mild              |
| * Bone Marrow               |             | Hyperplasia                      | Moderate          |
| * Intestine Small, Jejunum  |             | Lymphoma Malignant               |                   |
| * Kidney                    |             | Nephropathy                      | Mild              |
| * Liver                     |             | Clear Cell Focus                 |                   |
| * Lung                      |             | Infiltration Cellular            | Histiocyte, Mild  |
| * Parathyroid Gland         |             | Cyst                             | Moderate          |
| * Preputial Gland           |             | Inflammation                     | Chronic, Moderate |
| [ Inflammation TGLs = 1-8 ] |             |                                  |                   |
| * Spleen                    |             | Hematopoietic Cell Proliferation | Minimal           |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**ANIMAL NUM:** 176

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 12 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 110220

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Mild Focal, Mild
* Harderian Gland		Hyperplasia	Focal, Mild
* Kidney		Infarct Nephropathy	Minimal Minimal
* Liver	Hepatocyte	Basophilic Focus Clear Cell Focus Mixed Cell Focus Vacuolization Cytoplasmic	Moderate
Note: BASOPHILIC FOCUS IS ON SLIDE 21.			
[ Clear Cell Focus TGLs = 2-6 ]			
[ Mixed Cell Focus TGLs = 3-6,5-21 ]			
[ Vacuolization Cytoplasmic TGLs = 4-6 ]			
* Preputial Gland		Cyst	Moderate
[ Cyst TGLs = 1-8 ]			

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 177

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
Tissue NOS	Tongue	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Clear Cell Focus	
		Vacuolization Cytoplasmic	Moderate
	[ Clear Cell Focus TGLs = 3-21 ]		
	[ Vacuolization Cytoplasmic TGLs = 2-6 ]		
* Lymph Node, Mesenteric		Ectasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Cyst	Moderate
	[ Cyst TGLs = 1-8 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 178

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110222

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Infiltration Cellular	Lymphocyte, Mild
	Artery	Inflammation	Chronic Active, Moderate
		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
		Inflammation	Chronic Active, Moderate
	Kupffer Cell	Pigmentation	Moderate
	[ Hepatocellular Adenoma TGLs = 3-21 ]		
	[ Hepatocellular Carcinoma TGLs = 4-22,5-23 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mandibular		Hemorrhage	Mild
* Lymph Node, Mesenteric		Atrophy	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLs = 2-6 ]		
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

Animal Note: MODERATE PERIARTERITIS IN BLOOD VESSELS NEAR HILUS OF KIDNEY (SLIDE 5).

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 179

TMT: 7  
DOSE: 12 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 4  
HISTO: 110223

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Parathyroid Gland	Cyst	Moderate
---------------------	------	----------

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 180

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 709  
 HISTO: 110224

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Liver		Hematopoietic Cell Proliferation	Marked
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLs = 7-24 ]		
	[ Hepatocellular Carcinoma TGLs = 4-23 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Thrombosis	Mild
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked
		Squamous Cell Carcinoma	Metastatic (Stomach, Forestomach)
	[ Hematopoietic Cell Proliferation TGLs = 3-6 ]		
	[ Squamous Cell Carcinoma TGLs = 2-22 ]		
* Stomach, Forestomach		Squamous Cell Carcinoma	
	[ Squamous Cell Carcinoma TGLs = 1-21 ]		
* Stomach, Glandular		Squamous Cell Carcinoma	Metastatic (Stomach, Forestomach)
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Stomach, Forestomach Squamous Cell Carcinoma  
 CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 181

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110225

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Prostate                  | * Salivary Glands        | * Seminal Vesicle          |
| * Skin                    | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Testes                  | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

OBSERVATIONS

- |                   |  |                           |          |
|-------------------|--|---------------------------|----------|
| * Adrenal Cortex  | Subcapsular                            | Hyperplasia               | Mild     |
| * Kidney          |  | Nephropathy               | Minimal  |
| * Liver           |  | Clear Cell Focus          |          |
|                   | Hepatocyte                             | Hepatocellular Adenoma    |          |
|                   | [ Clear Cell Focus TGLs = 1-6 ]        | Vacuolization Cytoplasmic | Moderate |
|                   | [ Hepatocellular Adenoma TGLs = 2-21 ] |                           |          |
| * Preputial Gland |  | Cyst                      | Moderate |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 182

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 456  
 HISTO: 110226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Brain                   | * 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                    |
| * Lung                   | * Mammary Gland            | * Nose                    | * Pituitary Gland           |
| * Preputial Gland        | * Prostate                 | * Salivary Glands         | * Skin                      |
| * Stomach, Forestomach   | * Testes                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

MISSING

- |                          |                     |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

AUTO PRECLUDES DIAG.

- \* Gallbladder

INSUFFICIENT TISSUE

- \* Thymus

OBSERVATIONS

- |   |                                  |                                 |
|---|----------------------------------|---------------------------------|
| * Adrenal Cortex  | Leiomyosarcoma                   | Metastatic (Stomach, Glandular) |
| [ Leiomyosarcoma TGLs = 2-10 ]  |                                  |                                 |
| * Bone Marrow   | Hyperplasia                      | Marked                          |
| * Liver   | Cholangioma                      |                                 |
|   | Leiomyosarcoma                   | Metastatic (Stomach, Glandular) |
| Note: METASTATIC LEIOMYOSARCOMA IS ON SLIDES 6 AND 22. METASTATIC LEIOMYOSARCOMA ON SLIDE 22 INCLUDES EXTENSIVE REACTIVE BILIARY HYPERPLASIA. |                                  |                                 |
| [ Leiomyosarcoma TGLs = 4-22 ]  |                                  |                                 |
| * Lymph Node, Mesenteric  | Leiomyosarcoma                   | Metastatic (Stomach, Glandular) |
| Mesentery   | Leiomyosarcoma                   | Metastatic (Stomach, Glandular) |
| [ Leiomyosarcoma TGLs = 1-21 ]  |                                  |                                 |
| * Pancreas  | Atrophy                          | Moderate                        |
|   | Leiomyosarcoma                   | Metastatic (Stomach, Glandular) |
| * Seminal Vesicle   | Leiomyosarcoma                   | Metastatic (Stomach, Glandular) |
| * Spleen  | Hematopoietic Cell Proliferation | Moderate                        |

\* PROTOCOL REQUIRED TISSUE



**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 182

**TMT:** 7

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 12 MG/KG

**DISP:** Natural Death

**HISTO:** 110226

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Stomach, Glandular

Leiomyosarcoma

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PRIMARY CAUSE OF DEATH

- Stomach, Glandular Leiomyosarcoma

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TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 183

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110227

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Bone Marrow              | * Brain                   |
| * Epididymis                | * Esophagus              | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung                    |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    |
| * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                     | * Spleen                  |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

OBSERVATIONS

- |   |                           |                  |
|---|---------------------------|------------------|
| * Adrenal Cortex                            | Hypertrophy               | Focal, Mild      |
| * Harderian Gland                           | Carcinoma                 |                  |
| [ Carcinoma TGLs = 4-12 ]                   |                           |                  |
| * Islets, Pancreatic                        | Hyperplasia               | Mild             |
| * Kidney                                    | Metaplasia                | Osseous, Minimal |
|   | Nephropathy               | Minimal          |
| * Liver                                     | Hepatocellular Adenoma    | Multiple         |
|   | Mixed Cell Focus          |                  |
|   | Hepatocyte                |                  |
| [ Hepatocellular Adenoma TGLs = 1-21,2-22 ] | Vacuolization Cytoplasmic | Moderate         |
| [ Mixed Cell Focus TGLs = 3-23 ]            |                           |                  |
| * Preputial Gland                           | Cyst                      | Moderate         |
|   | Inflammation              | Chronic, Mild    |

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 184

TMT: 7

SEX: Male

DAY ON TEST: 729

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mesenteric

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
[ Clear Cell Focus TGLs = 1-6 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLs = 2-21 ]			
* Preputial Gland		Cyst	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 185

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Preputial Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Skin                      | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Testes                    | * Thymus                 | * Thyroid Gland            |
| * Trachea                 | * Urinary Bladder           |                          |                            |

OBSERVATIONS

- |                  |  |                          |                |
|------------------|--|--------------------------|----------------|
| * Adrenal Cortex |  | Hypertrophy              | Focal, Minimal |
| * Kidney         |  | Nephropathy              | Minimal        |
| * Liver          |  | Hepatocellular Adenoma   |                |
|                  |  | Hepatocellular Carcinoma |                |
|                  | [ Hepatocellular Adenoma TGLs = 2-22 ]   |                          |                |
|                  | [ Hepatocellular Carcinoma TGLs = 3-23 ] |                          |                |
| Mesentery        | Fat                                      | Necrosis                 | Moderate       |
|                  | [ Necrosis TGLs = 1-21 ]                 |                          |                |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 186

TMT: 7

SEX: Male

DAY ON TEST: 730

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[ Clear Cell Focus TGLs = 1-6 ]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Moderate
* Thymus		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 187

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 470  
 HISTO: 110231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                    | * Brain                     |
| * Epididymis             | * Esophagus                | * Eye                     | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      |
| * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         | * Preputial Gland           |
| * Prostate               | * Salivary Glands          | * Seminal Vesicle         | * Skin                      |
| * Stomach, Forestomach   | * Testes                   | * Thymus                  | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

AUTO PRECLUDES DIAG.

- \* Gallbladder

OBSERVATIONS

- |                      |   |                                  |                    |
|----------------------|---|----------------------------------|--------------------|
| * Bone Marrow        |   | Hyperplasia                      | Moderate           |
| * Heart              |   | Schwannoma Malignant             |                    |
| * Kidney             |   | Nephropathy                      | Moderate           |
| * Lung               |   | Alveolar/Bronchiolar Adenoma     |                    |
|                      | [ Alveolar/Bronchiolar Adenoma TGLs = 3-2 ] | Schwannoma Malignant             | Metastatic (Heart) |
| * Spleen             |   | Hematopoietic Cell Proliferation | Moderate           |
| * Stomach, Glandular |   | Erosion                          | Mild               |
| * Thyroid Gland      | Follicle                                    | Degeneration                     | Focal, Mild        |

PRIMARY CAUSE OF DEATH - Heart Schwannoma Malignant

Animal Note: TGL 2 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 188

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 545  
 HISTO: 110232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Infiltration Cellular	Lymphocyte, Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Basophilic Focus TGLs = 1-21 ]		
	[ Hepatocellular Adenoma TGLs = 3-6 ]		
	[ Hepatocellular Carcinoma TGLs = 2-22 ]		
* Lung		Thrombosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	[ Hyperplasia TGLs = 4-4 ]		
	[ Inflammation TGLs = 4-4 ]		

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 189

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110233

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Brain                    | * Epididymis              | * Esophagus                 |
| * Eye                    | * Gallbladder              | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung                    | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Nose                     | * Pancreas                | * Parathyroid Gland         |
| * Pituitary Gland        | * Preputial Gland          | * Prostate                | * Salivary Glands           |
| * Seminal Vesicle        | * Skin                     | * Spleen                  | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Testes                   | * Thymus                  | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

OBSERVATIONS

- |                          |  |                           |                   |
|--------------------------|--|---------------------------|-------------------|
| * Adrenal Cortex         |  | Hypertrophy               | Focal, Minimal    |
| * Bone                   | Cranium                                  | Osteopetrosis             | Moderate          |
|                          | [ Osteopetrosis TGLs = 3-22 ]            |                           |                   |
| * Bone Marrow            |  | Hyperplasia               | Mild              |
| * Islets, Pancreatic     |  | Hyperplasia               | Minimal           |
| * Kidney                 |  | Nephropathy               | Minimal           |
| * Liver                  | Hepatocyte                               | Clear Cell Focus          |                   |
|                          | [ Clear Cell Focus TGLs = 1-21 ]         | Vacuolization Cytoplasmic | Moderate          |
|                          | [ Vacuolization Cytoplasmic TGLs = 2-6 ] |                           |                   |
| * Lymph Node, Mandibular |  | Hyperplasia               | Lymphoid, Minimal |
| * Thyroid Gland          | Follicle                                 | Degeneration              | Focal, Mild       |



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 190

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110234

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[ Eosinophilic Focus TGLs = 2-22 ]		
	[ Hepatocellular Adenoma TGLs = 1-21 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose		Inflammation	Chronic, Minimal
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
	Lymph Follic	Hyperplasia	Mild
* Thymus		Atrophy	Mild

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 191

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Harderian Gland		Hyperplasia	Focal, Mild
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Hepatocellular Adenoma	
	[ Clear Cell Focus TGLs = 1-21 ]	Vacuolization Cytoplasmic	Moderate
	[ Hepatocellular Adenoma TGLs = 1-21 ]		
	[ Vacuolization Cytoplasmic TGLs = 1-21 ]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Preputial Gland		Cyst	Moderate
* Spleen	Lymph Follic	Hyperplasia	Mild

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 192

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Moribund Sacrifice

DAY ON TEST: 518  
 HISTO: 110236

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* 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
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Gallbladder                      \* Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Marked
	[ Nephropathy TGLs = 3-5 ]		
* Liver		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLs = 4-6,5-6 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Hepatocellular Carcinoma	Metastatic (Liver)
	[ Alveolar/Bronchiolar Adenoma TGLs = 7-22 ]		
* Lymph Node, Mesenteric		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	Note: TGL 1, TABULATED AS SKIN FIBROMA, HAS ATYPICAL VACUOLATION OF SPINDLE CELLS.		
	[ Fibroma TGLs = 1-21 ]		
* Spleen	Lymph Follic	Atrophy	Moderate
		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH            - Liver    Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 193

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110237

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart	Inflammation	Chronic Active, Mild
* Kidney	Infarct	Mild
	Metaplasia	Osseous, Mild
	Nephropathy	Minimal
* Liver	Clear Cell Focus	
	Hepatocellular Adenoma	
	Mixed Cell Focus	
[ Clear Cell Focus TGLs = 1-6 ]		
[ Hepatocellular Adenoma TGLs = 2-21 ]		
* Lymph Node, Mandibular	Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicle Degeneration	Focal, Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 194

TMT: 7

SEX: Male

DAY ON TEST: 730

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Gallbladder	* Parathyroid Gland
---------------	---------------------

INSUFFICIENT TISSUE

\* Lymph Node, Mandibular

OBSERVATIONS

* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lung	Alveolar Epith	Hyperplasia	Moderate
* Preputial Gland		Cyst	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 195

TMT: 7  
DOSE: 12 MG/KG

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 729  
HISTO: 110239

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Harderian Gland		Atrophy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 1-21 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 196

TMT: 7  
DOSE: 12 MG/KG

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 730  
HISTO: 110240

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis [ Inflammation TGLs = 1-21 ]		Inflammation	Chronic, Mild
* Kidney		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Testes Note: TESTIS ATROPHY IS ON SLIDE 21.	Germinal Epith	Atrophy	Mild

TDMS No. 99037 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010

Time Report Requested: 13:38:29

First Dose M/F: 06/30/03 / 06/30/03

Lab: SRI

ANIMAL NUM: 197

TMT: 7

SEX: Male

DAY ON TEST: 729

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Epididymis              | * Esophagus                 | * Eye                    |
| * Gallbladder              | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Nose                    | * Pancreas                  | * Parathyroid Gland      |
| * Pituitary Gland          | * Preputial Gland         | * Prostate                  | * Seminal Vesicle        |
| * Skin                     | * Spleen                  | * Stomach, Glandular        | * Testes                 |
| * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |                          |

OBSERVATIONS

- |                        |   |                                |                  |
|------------------------|---|--------------------------------|------------------|
| * Kidney               |   | Infarct                        | Minimal          |
| * Liver                |   | Hepatocellular Adenoma         | Multiple         |
|                        | [ Hepatocellular Adenoma TGLs = 2-21,3-6 ]    |                                |                  |
| * Lung                 |   | Alveolar/Bronchiolar Carcinoma |                  |
|                        | [ Alveolar/Bronchiolar Carcinoma TGLs = 4-2 ] |                                |                  |
| Mesentery              |   | Necrosis                       | Moderate         |
|                        | [ Necrosis TGLs = 1-7 ]                       |                                |                  |
| * Salivary Glands      |   | Infiltration Cellular          | Lymphocyte, Mild |
| * Stomach, Forestomach | Epithelium                                    | Hyperplasia                    | Moderate         |
|                        |   | Inflammation                   | Chronic, Mild    |
|                        | [ Hyperplasia TGLs = 6-22 ]                   |                                |                  |
|                        | [ Inflammation TGLs = 6-22 ]                  |                                |                  |
| * Thymus               |   | Atrophy                        | Moderate         |
|                        |   | Cyst                           | Moderate         |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 198

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110242

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

\* Thymus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Intestine Small, Ileum		Carcinoma	
	[ Carcinoma TGLs = 4-23 ]		
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatoblastoma	
		Hepatocellular Adenoma	
Note: THE HEPATOBLASTOMA IS PARTIALLY SURROUNDED BY HEPATOCELLULAR ADENOMA ON SLIDE 22.			
	[ Hepatoblastoma TGLs = 3-22 ]		
	[ Hepatocellular Adenoma TGLs = 2-21 ]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 199

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110243

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Hepatoblastoma	Metastatic (Liver)
	[ Hepatoblastoma TGLs = 12-12 ]		
* Kidney		Hepatoblastoma	Metastatic (Liver)
		Metaplasia	Osseous, Minimal
		Nephropathy	Mild
	[ Hepatoblastoma TGLs = 3-5 ]		
	[ Nephropathy TGLs = 3-5 ]		
* Liver		Hepatoblastoma	
		Inflammation	Chronic Active, Moderate
		Necrosis	Diffuse, Moderate
	[ Hepatoblastoma TGLs = 4-22 ]		
* Lung		Hepatoblastoma	Metastatic (Liver)
	[ Hepatoblastoma TGLs = 6-2,7-2,8-2,9-2,10-2,11-2 ]		
Lymph Node	Mediastinal	Hepatoblastoma	Metastatic (Liver)
		Hepatoblastoma	Metastatic (Liver)
	[ Hepatoblastoma TGLs = 5-3 ]		
	[ Hepatoblastoma TGLs = 13-23 ]		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Nose		Foreign Body	
* Pancreas		Hepatoblastoma	Metastatic (Liver)

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 199

TMT: 7

SEX: Male

DAY ON TEST: 731

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110243

ORGAN AND ACCOUNTABLE SITE STATUS

[ Hepatoblastoma TGLs = 2-7 ]		
* Preputial Gland	Cyst	Moderate
Skeletal Muscle	Hepatoblastoma	Metastatic (Liver)
[ Hepatoblastoma TGLs = 1-21 ]		
* Spleen	Hematopoietic Cell Proliferation	Mild
* Thymus	Atrophy	Moderate

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 200

TMT: 7  
 DOSE: 12 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 730  
 HISTO: 110244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Brain                    | * Epididymis              |
| * Esophagus                 | * Eye                    | * Gallbladder              | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung                    |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    |
| * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          | * Preputial Gland         |
| * Prostate                  | * Salivary Glands        | * Seminal Vesicle          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   | * Thymus                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

OBSERVATIONS

- |  |             |                                  |          |
|--|-------------|----------------------------------|----------|
| * Adrenal Cortex   | Subcapsular | Hyperplasia                      | Mild     |
| * Bone Marrow  |             | Hyperplasia                      | Mild     |
| * Islets, Pancreatic   |             | Hyperplasia                      | Moderate |
| * Kidney   |             | Cyst                             | Moderate |
|  |             | Nephropathy                      | Minimal  |
| * Liver  |             | Clear Cell Focus                 |          |
|  | Hepatocyte  | Hepatocellular Adenoma           | Multiple |
|  |             | Vacuolization Cytoplasmic        | Mild     |
| Note: CLEAR CELL FOCI ARE ON SLIDE 21.<br>[ Hepatocellular Adenoma TGLs = 1-6,2-21 ] |             |                                  |          |
| * Spleen   |             | Hematopoietic Cell Proliferation | Mild     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 201

TMT: 9

SEX: Male

DAY ON TEST: 183

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110245

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

\* Spleen

Pigmentation

Moderate

[ Pigmentation TGLs = 2-6 ]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 202

TMT: 9

SEX: Male

DAY ON TEST: 135

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110246

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Kidney	Renal Tubule Papilla	Dilatation Necrosis Nephropathy Hemorrhage	Focal, Mild Mild Mild Minimal
* Lung			

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 203

TMT: 9

SEX: Male

DAY ON TEST: 239

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110247

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Intestine Large, Colon

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 204

TMT: 9  
DOSE: 25 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 291  
HISTO: 110248

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Pituitary Gland	Rathkes Cleft	Dilatation	Minimal
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PRIMARY CAUSE OF DEATH - UNCERTAIN



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 205

TMT: 9

SEX: Male

DAY ON TEST: 731

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 110249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
	[ Clear Cell Focus TGLs = 2-6 ]		
	[ Hepatocellular Adenoma TGLs = 3-22,4-23,5-24,6-25 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLs = 7-26 ]		
* Skin		Keratoacanthoma	
	[ Keratoacanthoma TGLs = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
	[ Hyperplasia TGLs = 8-27 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 206

TMT: 9  
 DOSE: 25 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
* Eye		Inflammation	Chronic, Moderate
	Cornea	Ulcer	Moderate
* Harderian Gland		Adenoma	
	[ Adenoma TGLs = 2-12 ]		
* Kidney		Cyst	Mild
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[ Hepatocellular Adenoma TGLs = 1-21 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 207

TMT: 9  
DOSE: 25 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 268  
HISTO: 110251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* 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	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 208

TMT: 9  
DOSE: 25 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 239  
HISTO: 110252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Gallbladder

OBSERVATIONS

\* Lung Foreign Body

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 209

TMT: 9  
DOSE: 25 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 351  
HISTO: 110253

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* 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	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

\* Lung Hemorrhage Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010

Time Report Requested: 13:38:29

First Dose M/F: 06/30/03 / 06/30/03

Lab: SRI

ANIMAL NUM: 210

TMT: 9

SEX: Male

DAY ON TEST: 729

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 110254

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Brain                    | * Epididymis              |
| * Esophagus                 | * Eye                    | * Gallbladder              | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mandibular  |
| * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Stomach, Glandular       | * Testes                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

OBSERVATIONS

- |                        |  |                                  |                    |
|------------------------|--|----------------------------------|--------------------|
| * Adrenal Cortex       |  | Degeneration                     | Fatty, Minimal     |
| * Bone Marrow          |  | Hyperplasia                      | Moderate           |
| * Islets, Pancreatic   |  | Hyperplasia                      | Mild               |
| * Kidney               |  | Nephropathy                      | Moderate           |
| * Liver                |  | Hepatocellular Carcinoma         | Multiple           |
|                        | [ Hepatocellular Carcinoma TGLs = 1-21,2-22,3-23 ] |                                  |                    |
| * Lung                 |  | Hepatocellular Carcinoma         | Metastatic (Liver) |
| * Preputial Gland      |  | Inflammation                     | Chronic, Moderate  |
| * Spleen               |  | Hematopoietic Cell Proliferation | Marked             |
| * Stomach, Forestomach | Epithelium   | Hyperplasia                      | Moderate           |
|                        | [ Hyperplasia TGLs = 5-24 ]                        | Inflammation                     | Chronic, Moderate  |
| * Thymus               |  | Atrophy                          | Moderate           |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 211

TMT: 9  
 DOSE: 25 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110255

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Islets, Pancreatic	Adenoma	
Note: ISLET ADENOMA IS PRESENT ON SLIDE 4.		
* Kidney	Nephropathy	Mild
* Liver	Clear Cell Focus	
	Hepatocellular Adenoma	Multiple
	Necrosis	Focal, Mild
Note: CLEAR CELL FOCUS IS ON SLIDES 21 AND 24.		
[ Hepatocellular Adenoma TGLs = 1-21,2-6,3-22,4-23,5-24,6-6 ]		
* Lung	Alveolar/Bronchiolar Adenoma	
* Preputial Gland	Cyst	Moderate
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicle	
	Degeneration	Focal, Minimal

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 212

TMT: 9  
 DOSE: 25 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110256

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Parathyroid Gland

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[ Clear Cell Focus TGLs = 3-6 ]		
	[ Hepatocellular Adenoma TGLs = 2-22 ]		
	[ Vacuolization Cytoplasmic TGLs = 3-6 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
	[ Alveolar/Bronchiolar Carcinoma TGLs = 4-23,5-24 ]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLs = 1-21 ]		
* Preputial Gland		Inflammation	Chronic, Mild

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 213

TMT: 9

SEX: Male

DAY ON TEST: 241

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110257

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

\* Kidney

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 214

TMT: 9  
DOSE: 25 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 365  
HISTO: 110258

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 215

TMT: 9

SEX: Male

DAY ON TEST: 288

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110259

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 216

TMT: 9

SEX: Male

DAY ON TEST: 250

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110260

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

\* Lung Hemorrhage TGLs = 1-2 ] Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 217

TMT: 9  
 DOSE: 25 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110261

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Infarct	Moderate
* Liver		Clear Cell Focus	
	Hepatocyte	Hepatocellular Adenoma	Multiple
		Hypertrophy	Mild
Note: HEPATOCELLULAR HYPERTROPHY INVOLVES THE CENTRIOBULAR AND MIDZONAL REGIONS.			
	[ Clear Cell Focus TGLs = 1-21 ]		
	[ Hepatocellular Adenoma TGLs = 2-22,3-23 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Preputial Gland		Inflammation	Chronic, Moderate
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 218

TMT: 9  
DOSE: 25 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 212  
HISTO: 110262

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 219

TMT: 9

SEX: Male

DAY ON TEST: 274

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110263

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Lung	Hemorrhage	Minimal
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PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 220

TMT: 9  
DOSE: 25 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 190  
HISTO: 110264

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Epididymis              | * Esophagus                 | * Eye                    |
| * Gallbladder              | * 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, Mandibular  | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nose                     | * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        |
| * Preputial Gland          | * Prostate                | * Salivary Glands           | * Seminal Vesicle        |
| * Skin                     | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Testes                   | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

PRIMARY CAUSE OF DEATH - UNCERTAIN



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 221

TMT: 9

SEX: Male

DAY ON TEST: 334

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110265

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Liver	Mixed Cell Focus	
* Nose	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 222

TMT: 9  
 DOSE: 25 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110266

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
		Necrosis	Focal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: FOCAL NECROSIS IS ON SLIDE 24. CLEAR CELL FOCI ARE ON SLIDES 6 AND 24.			
	[ Clear Cell Focus TGLs = 4-24 ]		
	[ Hepatocellular Adenoma TGLs = 2-22,3-23 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLs = 5-25 ]		
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLs = 1-21 ]		
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 223

TMT: 9

SEX: Male

DAY ON TEST: 220

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110267

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Pituitary Gland	Rathkes Cleft	Dilatation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 224

TMT: 9

SEX: Male

DAY ON TEST: 136

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110268

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 225

TMT: 9  
DOSE: 25 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 249  
HISTO: 110269

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Epididymis              | * Esophagus                 | * Eye                    |
| * Gallbladder              | * 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, Mandibular  | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nose                     | * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        |
| * Preputial Gland          | * Prostate                | * Salivary Glands           | * Seminal Vesicle        |
| * Skin                     | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Testes                   | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 226

TMT: 9

SEX: Male

DAY ON TEST: 117

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110270

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

\* Kidney

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 227

TMT: 9  
DOSE: 25 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 206  
HISTO: 110271

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 228

TMT: 9

SEX: Male

DAY ON TEST: 276

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110272

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Gallbladder

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

PRIMARY CAUSE OF DEATH

- UNCERTAIN



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 229

TMT: 9  
 DOSE: 25 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110273

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Epididymis              | * Esophagus                 |
| * Eye                    | * Gallbladder              | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    | * Pancreas                  |
| * Parathyroid Gland      | * Pituitary Gland          | * Prostate                | * Salivary Glands           |
| * Seminal Vesicle        | * Skin                     | * Stomach, Glandular      | * Testes                    |
| * Thymus                 | * Trachea                  | * Urinary Bladder         |                             |

OBSERVATIONS

- |                   |   |                                   |                   |
|-------------------|---|-----------------------------------|-------------------|
| * Adrenal Cortex  |   | Accessory Adrenal Cortical Nodule | Moderate          |
| * Bone Marrow     |   | Hyperplasia                       | Marked            |
| * Brain           |   | Pigmentation                      | Minimal           |
| * Kidney          |   | Nephropathy                       | Mild              |
| * Liver           |   | Hepatocellular Adenoma            |                   |
|                   |   | Hepatocellular Carcinoma          |                   |
|                   |   | Inflammation                      | Chronic, Moderate |
|                   |   | Mixed Cell Focus                  |                   |
|                   |   | Necrosis                          | Focal, Moderate   |
|                   | [ Hepatocellular Adenoma TGLs = 6-6 ]           |                                   |                   |
|                   | [ Hepatocellular Carcinoma TGLs = 5-24 ]        |                                   |                   |
|                   | [ Inflammation TGLs = 4-23 ]                    |                                   |                   |
|                   | [ Mixed Cell Focus TGLs = 2-21 ]                |                                   |                   |
|                   | [ Necrosis TGLs = 4-23 ]                        |                                   |                   |
| * Lung            |   | Alveolar/Bronchiolar Adenoma      |                   |
| Mesentery         | Fat   | Necrosis                          | Moderate          |
|                   | [ Necrosis TGLs = 3-22 ]                        |                                   |                   |
| * Preputial Gland |   | Cyst                              | Moderate          |
|                   |   | Inflammation                      | Chronic, Mild     |
| * Spleen          |   | Hematopoietic Cell Proliferation  | Moderate          |
|                   | [ Hematopoietic Cell Proliferation TGLs = 1-6 ] |                                   |                   |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

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ANIMAL NUM: 229

TMT: 9

SEX: Male

DAY ON TEST: 729

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 110273

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ORGAN AND ACCOUNTABLE SITE STATUS

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* Stomach, Forestomach [ Hyperplasia TGLs = 7-25 ]	Epithelium	Hyperplasia	Marked
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

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TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 230

TMT: 9

SEX: Male

DAY ON TEST: 171

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110274

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

\* Intestine Small, Jejunum

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 231

TMT: 9

SEX: Male

DAY ON TEST: 295

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110275

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

\* Liver

Hepatocellular Adenoma

[ Hepatocellular Adenoma TGLs = 1-6 ]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 232

TMT: 9  
 DOSE: 25 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110276

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Epididymis              | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Preputial Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Skin                      | * Spleen                 | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Testes                    | * Thymus                 | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

OBSERVATIONS

- |                          |               |                                   |             |
|--------------------------|---------------|-----------------------------------|-------------|
| * Adrenal Cortex         |               | Accessory Adrenal Cortical Nodule | Moderate    |
|                          |               | Hypertrophy                       | Focal, Mild |
| * Kidney                 |               | Nephropathy                       | Minimal     |
| * Liver                  |               | Hepatocellular Adenoma            |             |
|                          |               | Mixed Cell Focus                  |             |
|                          | Hepatocyte    | Vacuolization Cytoplasmic         | Moderate    |
| [ Hepatocellular Adenoma | TGLs = 1-21 ] |                                   |             |
| * Thyroid Gland          | Follicle      | Degeneration                      | Focal, Mild |

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 233

TMT: 9

SEX: Male

DAY ON TEST: 239

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110277

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Gallbladder

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 234

TMT: 9

SEX: Male

DAY ON TEST: 221

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110278

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Intestine Small, Duodenum

AUTO PRECLUDES DIAG.

\* Intestine Small, Jejunum

OBSERVATIONS

* Kidney		Hydronephrosis	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 235

TMT: 9  
DOSE: 25 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 253  
HISTO: 110279

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* 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, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Harderian Gland	Adenoma	
[ Adenoma TGLs = 2-12 ]		

PRIMARY CAUSE OF DEATH - UNCERTAIN



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 236

TMT: 9  
 DOSE: 25 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110280

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLs = 1-6,2-21 ]		
* Lung		Metaplasia	Osseous, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 237

TMT: 9

SEX: Male

DAY ON TEST: 729

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 110281

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Islets, Pancreatic [ Adenoma TGLs = 2-7 ]		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Basophilic Focus	
	[ Basophilic Focus TGLs = 3-6 ]	Vacuolization Cytoplasmic	Moderate
	[ Vacuolization Cytoplasmic TGLs = 3-6 ]		
* Pituitary Gland			
Note: TGL 1 AT NECROPSY MAY HAVE BEEN INTENDED TO APPLY TO PREPUTIAL RATHER THAN PITUITARY GLAND.			
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Mild
* Stomach, Glandular	Epithelium	Hyperplasia	Mild

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 238

TMT: 9

SEX: Male

DAY ON TEST: 232

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110282

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* 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	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

\* Lymph Node, Mandibular

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 239

TMT: 9

SEX: Male

DAY ON TEST: 233

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110283

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* 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, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Cyst	Minimal
* Lung	Hemorrhage	Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 240

TMT: 9  
 DOSE: 25 MG/KG

SEX: Male  
 DISP: Natural Death

DAY ON TEST: 683  
 HISTO: 110284

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Harderian Gland	* Lymph Node, Mandibular
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OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
	Hepatocellular Carcinoma	Multiple
	Necrosis	Diffuse, Marked
Note: BASOPHILIC FOCUS IS ON SLIDE 23.		
	[ Hepatocellular Carcinoma TGLs = 1-21,3-23 ]	
	[ Necrosis TGLs = 2-22 ]	
* Lung	Alveolar/Bronchiolar Carcinoma	Multiple
	[ Alveolar/Bronchiolar Carcinoma TGLs = 4-2 ]	
* Pancreas	Atrophy	Minimal
* Spleen	Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Epithelium	Moderate
	Hyperplasia	Moderate
	Inflammation	Chronic, Moderate
	Squamous Cell Papilloma	

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma  
 CONTRIBUTORY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 241

TMT: 9

SEX: Male

DAY ON TEST: 687

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110285

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Jejunum
---------------	-----------------------------	----------------------------

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Liver	[ Hepatocellular Carcinoma TGLs = 1-21 ]	Hepatocellular Carcinoma	
* Nose		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 242

TMT: 9

SEX: Male

DAY ON TEST: 225

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110286

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 243

TMT: 9  
DOSE: 25 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 331  
HISTO: 110287

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Epididymis              | * Esophagus                 | * Eye                    |
| * Gallbladder              | * 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, Mandibular  | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nose                     | * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        |
| * Preputial Gland          | * Prostate                | * Salivary Glands           | * Seminal Vesicle        |
| * Skin                     | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Testes                   | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

PRIMARY CAUSE OF DEATH - UNCERTAIN



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 244

TMT: 9

SEX: Male

DAY ON TEST: 731

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 110288

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Pituitary Gland

OBSERVATIONS

* Liver	Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLs = 1-6,2-21,3-22 ]		
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLs = 4-2 ]		
* Lymph Node, Mesenteric	Hyperplasia	Lymphoid, Moderate
* Spleen	Hematopoietic Cell Proliferation	Mild

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 245

TMT: 9

SEX: Male

DAY ON TEST: 253

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110289

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

\* Intestine Small, Jejunum

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 246

TMT: 9

SEX: Male

DAY ON TEST: 604

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110290

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLs = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Adenoma

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 247

TMT: 9

SEX: Male

DAY ON TEST: 374

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110291

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 248

TMT: 9  
 DOSE: 25 MG/KG

SEX: Male  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110292

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia Hypertrophy	Mild Focal, Minimal
* Kidney		Infiltration Cellular Metaplasia Nephropathy	Lymphocyte, Moderate Osseous, Minimal Minimal
* Liver		Clear Cell Focus Hepatocellular Adenoma Inflammation	Multiple Chronic Active, Minimal
Note: CLEAR CELL FOCI ARE ON SLIDES 6, 21, 23, AND 25. [ Clear Cell Focus TGLs = 1-6,2-21 ] [ Hepatocellular Adenoma TGLs = 1-6,3-22,4-23,5-24,6-25 ] [ Inflammation TGLs = 1-6 ]			
* Lung	[ Alveolar/Bronchiolar Adenoma TGLs = 7-2 ]	Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Spleen	Lymph Follicle	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 249

TMT: 9  
DOSE: 25 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 191  
HISTO: 110293

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Jejunum
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OBSERVATIONS

* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
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PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 250

TMT: 9  
DOSE: 25 MG/KG

SEX: Male  
DISP: Natural Death

DAY ON TEST: 729  
HISTO: 110294

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Brain                   |
| * 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                    | * Lung                   | * Lymph Node, Mandibular   | * Mammary Gland           |
| * Nose                      | * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         |
| * Preputial Gland           | * Prostate               | * Salivary Glands          | * Seminal Vesicle         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Testes                  |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

MISSING

- \* Gallbladder

OBSERVATIONS

- |                          |  |                                  |                |
|--------------------------|--|----------------------------------|----------------|
| * Bone Marrow            |  | Hyperplasia                      | Mild           |
| * Liver                  |  | Hepatocellular Carcinoma         | Multiple       |
|                          | [ Hepatocellular Carcinoma TGLs = 1-6,2-21 ] |                                  |                |
| * Lymph Node, Mesenteric |  | Hyperplasia                      | Lymphoid, Mild |
| * Spleen                 |  | Hematopoietic Cell Proliferation | Moderate       |
| * Thymus                 |  | Atrophy                          | Mild           |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 251

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110295

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone		Fibrosis	Mild
* Liver		Lymphoma Malignant	
	[ Lymphoma Malignant TGLs = 5-22,6-23 ]		
Mesentery		Necrosis	Mild
	[ Necrosis TGLs = 4-21 ]		
* Ovary		Angiectasis	Moderate
		Cyst	Moderate
	Note: MILD ANGIECTASIS IN PERI-OVARIAN FAT MAY HAVE BEEN PART OF TGL 3.		
	[ Angiectasis TGLs = 3-7 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Urin Bladder			
	Note: INFUSION ARTIFACT IN URINARY BLADDER.		
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[ Hyperplasia TGLs = 1-7,2-7 ]		

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 252

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Natural Death

DAY ON TEST: 715  
 HISTO: 110296

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                        |                   |                     |                           |
|------------------------|-------------------|---------------------|---------------------------|
| * Adrenal Cortex       | * Adrenal Medulla | * Bone              | * Brain                   |
| * Esophagus            | * Eye             | * Harderian Gland   | * Intestine Large, Rectum |
| * Mammary Gland        | * Nose            | * Parathyroid Gland | * Pituitary Gland         |
| * Stomach, Forestomach | * Thyroid Gland   | * Trachea           | * Urinary Bladder         |

MISSING

- |                  |                          |                   |
|------------------|--------------------------|-------------------|
| * Clitoral Gland | * Lymph Node, Mandibular | * Salivary Glands |
|------------------|--------------------------|-------------------|

AUTO PRECLUDES DIAG.

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Gallbladder            | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Lymph Node, Mesenteric    |
| * Ovary                  | * Pancreas                 | * Stomach, Glandular     |                             |

OBSERVATIONS

- |               |                                     |                     |          |
|---------------|-------------------------------------|---------------------|----------|
| * Bone Marrow |                                     | Hemangiosarcoma     |          |
| * Heart       |                                     | Mineralization      | Minimal  |
| * Kidney      | Renal Tubule                        | Pigmentation        | Moderate |
| * Liver       |                                     | Hemangiosarcoma     |          |
|               | [ Hemangiosarcoma TGLs = 6-25,7-6 ] | Histiocytic Sarcoma |          |
| * Lung        |                                     | Histiocytic Sarcoma |          |
| Lymph Node    | Inguinal                            | Histiocytic Sarcoma |          |
|               | Renal                               | Histiocytic Sarcoma |          |
|               | Iliac                               | Histiocytic Sarcoma |          |
|               | [ Histiocytic Sarcoma TGLs = 1-21 ] |                     |          |
|               | [ Histiocytic Sarcoma TGLs = 2-22 ] |                     |          |
|               | [ Histiocytic Sarcoma TGLs = 5-24 ] |                     |          |
|               | [ Histiocytic Sarcoma TGLs = 8-26 ] |                     |          |
| * Skin        | Subcut Tiss                         | Hemangiosarcoma     |          |
|               | [ Hemangiosarcoma TGLs = 3-23 ]     | Ulcer               | Mild     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 252

TMT: 2

SEX: Female

DAY ON TEST: 715

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110296

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hemangiosarcoma
[ Hemangiosarcoma	TGLs = 4-6 ]	
* Thymus		Histiocytic Sarcoma
[ Histiocytic Sarcoma	TGLs = 9-3 ]	
* Uterus		Histiocytic Sarcoma

PRIMARY CAUSE OF DEATH - Spleen Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Liver Histiocytic Sarcoma

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 253

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 733  
HISTO: 110297

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
	Capsule	Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen	Lymph Follicle	Hyperplasia	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

[ Hyperplasia TGLs = 1-7 ]

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 254

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Accidentally Killed

DAY ON TEST: 95  
HISTO: 110298

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 255

TMT: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110299

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Islets, Pancreatic		Adenoma	
* Kidney		Infarct	Mild
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 1-6 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicle	Cyst	Moderate
	Follicle	Degeneration	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 256

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110300

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Bone Marrow              |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder             | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Lung                   | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Salivary Glands           | * Skin                   | * Spleen                   |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 | * Trachea                  |

OBSERVATIONS

- |  |             |  |                   |
|--|-------------|--|-------------------|
| * Harderian Gland<br>[ Carcinoma TGLs = 3-12 ]                               |             | Carcinoma  |                   |
| * Liver<br><br>[ Cyst TGLs = 2-21 ]<br>[ Hepatocellular Adenoma TGLs = 1-6 ] |             | Clear Cell Focus<br>Cyst<br>Hepatocellular Adenoma | Moderate          |
| * Lymph Node, Mandibular   |             | Hyperplasia  | Lymphoid, Minimal |
| * Ovary  |             | Cystadenoma  |                   |
| * Thyroid Gland  | Follicle    | Degeneration                                       | Focal, Minimal    |
| * Urinary Bladder  |             | Infiltration Cellular                              | Lymphocyte, Mild  |
| * Uterus<br>[ Hyperplasia TGLs = 4-7 ]                                       | Endometrium | Hyperplasia  | Cystic, Mild      |

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 257

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 732  
HISTO: 110301

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Harderian Gland		Hyperplasia	Focal, Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLs = 1-7 ]

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 258

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110302

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Lung                   | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Ovary                  | * Pancreas                 |
| * Parathyroid Gland       | * Pituitary Gland           | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Trachea                   | * Urinary Bladder        |                            |

**OBSERVATIONS**

- |                          |   |                                  |                  |
|--------------------------|---|----------------------------------|------------------|
| * Bone Marrow            |   | Hyperplasia                      | Mild             |
| * Liver                  |   | Clear Cell Focus                 |                  |
| * Lymph Node, Mandibular |   | Hyperplasia                      | Lymphoid, Mild   |
| * Salivary Glands        |   | Infiltration Cellular            | Lymphocyte, Mild |
| * Skin                   | Subcut Tiss                                     | Sarcoma                          |                  |
|                          | [ Sarcoma TGLs = 3-21 ]                         |                                  |                  |
| * Spleen                 |   | Hematopoietic Cell Proliferation | Moderate         |
|                          | [ Hematopoietic Cell Proliferation TGLs = 1-6 ] |                                  |                  |
| * Thyroid Gland          | Follicle  | Degeneration                     | Focal, Mild      |
| * Uterus                 | Endometrium                                     | Hyperplasia                      | Cystic, Marked   |
|                          | [ Hyperplasia TGLs = 2-7 ]                      |                                  |                  |

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 259

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Moribund Sacrifice

DAY ON TEST: 296  
HISTO: 110303

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Ovary		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 260

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Natural Death

DAY ON TEST: 564  
 HISTO: 110304

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                          |                           |                          |
|----------------------------|--------------------------|---------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                   | * Brain                   | * Clitoral Gland         |
| * Esophagus                | * Eye                    | * Harderian Gland         | * Heart                  |
| * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic     | * Mammary Gland           | * Nose                   |
| * Pancreas                 | * Pituitary Gland        | * Salivary Glands         | * Skin                   |
| * Stomach, Forestomach     | * Stomach, Glandular     | * Thyroid Gland           | * Trachea                |
| * Uterus                   |                          |                           |                          |

MISSING

- |                             |                     |
|-----------------------------|---------------------|
| * Intestine Small, Duodenum | * Parathyroid Gland |
|-----------------------------|---------------------|

AUTO PRECLUDES DIAG.

- |               |          |
|---------------|----------|
| * Gallbladder | * Thymus |
|---------------|----------|

OBSERVATIONS

- |                          |   |                                   |          |
|--------------------------|---|-----------------------------------|----------|
| * Adrenal Cortex         |   | Accessory Adrenal Cortical Nodule | Moderate |
|                          |   | Plasma Cell Tumor Malignant       |          |
| * Bone Marrow            |   | Plasma Cell Tumor Malignant       |          |
| * Kidney                 |   | Plasma Cell Tumor Malignant       |          |
| * Liver                  |   | Plasma Cell Tumor Malignant       |          |
|                          | Hepatocyte                                  | Vacuolization Cytoplasmic         | Marked   |
|                          | [ Vacuolization Cytoplasmic TGLs = 2-6 ]    |                                   |          |
| * Lung                   |   | Hemorrhage                        | Marked   |
|                          | [ Hemorrhage TGLs = 5-2 ]                   | Plasma Cell Tumor Malignant       |          |
| Lymph Node               | Mediastinal                                 | Plasma Cell Tumor Malignant       |          |
|                          | [ Plasma Cell Tumor Malignant TGLs = 3-21 ] | Plasma Cell Tumor Malignant       |          |
|                          | [ Plasma Cell Tumor Malignant TGLs = 7-24 ] |                                   |          |
| * Lymph Node, Mandibular |   | Plasma Cell Tumor Malignant       |          |
| * Lymph Node, Mesenteric |   | Plasma Cell Tumor Malignant       |          |
| * Ovary                  |   | Plasma Cell Tumor Malignant       |          |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 260

TMT: 2

SEX: Female

DAY ON TEST: 564

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110304

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Plasma Cell Tumor Malignant
[ Plasma Cell Tumor Malignant TGLs = 1-6 ]	
Tissue NOS	Plasma Cell Tumor Malignant
* Urinary Bladder	Plasma Cell Tumor Malignant

PRIMARY CAUSE OF DEATH - Spleen Plasma Cell Tumor Malignant

Animal Note: Plasma Cell Tumor Malignant in Tissue NOS (TGL 4-22).

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 261

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110305

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

MISSING

\* Thymus

OBSERVATIONS

* Harderian Gland [ Adenoma TGLs = 5-12 ]		Adenoma	
* Ovary		Hemorrhage	Mild
* Pancreas [ Cyst TGLs = 3-7 ]		Atrophy	Marked
		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular	Epithelium	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Urin Bladder Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus [ Hyperplasia TGLs = 1-7,2-7 ]	Endometrium	Hyperplasia	Cystic, Marked

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 262

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 733  
HISTO: 110306

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLs = 2-21 ]			
* Nose		Inflammation	Chronic, Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLs = 1-7 ]			

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 263

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110307

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone	Femur	Hyperostosis	Moderate
* Bone Marrow		Hyperplasia	Marked
* Kidney		Cyst	Moderate
		Nephropathy	Mild
* Liver		Hematopoietic Cell Proliferation	Mild
* Nose		Inflammation	Chronic, Minimal
* Ovary		Cystadenoma	
		Thrombosis	Marked
	[ Cystadenoma TGLs = 1-7 ]		
	[ Thrombosis TGLs = 1-7 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Inflammation	Suppurative, Moderate
	[ Hyperplasia TGLs = 2-7 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 264

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110308

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Brain                    | * Clitoral Gland          |
| * Esophagus                 | * Eye                    | * Gallbladder              | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    |
| * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          | * Salivary Glands         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

INSUFFICIENT TISSUE

- \* Thymus

OBSERVATIONS

- |   |   |                                |          |
|---|---|--------------------------------|----------|
| * Adrenal Cortex  |   | Lymphoma Malignant             |          |
| * Bone Marrow   |   | Hyperplasia                    | Moderate |
| * Kidney  |   | Lymphoma Malignant             |          |
|   | [ Lymphoma Malignant TGLs = 7-24 ]                            |                                |          |
| * Liver   |   | Hepatocellular Adenoma         |          |
|   |   | Lymphoma Malignant             |          |
|   | Hepatocyte  | Vacuolization Cytoplasmic      | Moderate |
| Note: MALIGNANT LYMPHOMA AND HEPATOCELLULAR ADENOMA ARE IN LIVER SECTION ON SLIDE 26. |   |                                |          |
|   | [ Hepatocellular Adenoma TGLs = 11-26 ]                       |                                |          |
|   | [ Lymphoma Malignant TGLs = 8-6,9-6,10-25,11-26,12-27,13-28 ] |                                |          |
|   | [ Vacuolization Cytoplasmic TGLs = 9-6 ]                      |                                |          |
| * Lung  |   | Alveolar/Bronchiolar Carcinoma |          |
|   |   | Lymphoma Malignant             |          |
|   | [ Alveolar/Bronchiolar Carcinoma TGLs = 15-2 ]                |                                |          |
| Lymph Node  | Iliac   | Lymphoma Malignant             |          |
|   | Renal   | Lymphoma Malignant             |          |
|   | Mediastinal   | Lymphoma Malignant             |          |
|   | [ Lymphoma Malignant TGLs = 5-22 ]                            |                                |          |
|   | [ Lymphoma Malignant TGLs = 6-23 ]                            |                                |          |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 264

TMT: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110308

ORGAN AND ACCOUNTABLE SITE STATUS

[ Lymphoma Malignant TGLs = 16-29 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLs = 2-21 ]			
* Ovary		Hemorrhage	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Lymphoma Malignant	
[ Hematopoietic Cell Proliferation TGLs = 1-6 ]			
[ Lymphoma Malignant TGLs = 1-6 ]			
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLs = 3-7,4-7 ]			



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 265

TMT: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110309

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLs = 1-21 ]		
* Lymph Node, Mandibular		Pigmentation	Moderate
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant	
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 266

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Moribund Sacrifice

DAY ON TEST: 691  
 HISTO: 110310

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Nose                   | * Ovary                    |
| * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Trachea                | * Urinary Bladder          |

OBSERVATIONS

- |                          |   |                                  |                      |
|--------------------------|---|----------------------------------|----------------------|
| * Bone Marrow            |   | Hyperplasia                      | Marked               |
| * Kidney                 | Renal Tubule                                    | Accumulation, Hyaline Droplet    | Moderate             |
| * Liver                  | Kupffer Cell                                    | Hyperplasia                      | Mild                 |
| * Lymph Node, Mandibular |   | Hyperplasia                      | Lymphoid, Mild       |
| * Lymph Node, Mesenteric |   | Hyperplasia                      | Lymphoid, Mild       |
| * Mammary Gland          |   | Hyperplasia                      | Minimal              |
| * Pancreas               | Acinus  | Cytoplasmic Alteration           | Moderate             |
|                          |   | Infiltration Cellular            | Lymphocyte, Moderate |
| * Skin                   | Subcut Tiss                                     | Fibrosarcoma                     |                      |
|                          | [ Fibrosarcoma TGLs = 1-21 ]                    |                                  |                      |
| * Spleen                 |   | Hematopoietic Cell Proliferation | Marked               |
|                          | [ Hematopoietic Cell Proliferation TGLs = 3-6 ] |                                  |                      |
| * Thyroid Gland          | Follicle  | Degeneration                     | Focal, Mild          |
| * Urin Bladder           |   |                                  |                      |
|                          | Note: INFUSION ARTIFACT IN URINARY BLADDER.     |                                  |                      |
| * Uterus                 | Endometrium                                     | Hyperplasia                      | Cystic, Mild         |

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010

Time Report Requested: 13:38:29

First Dose M/F: 06/30/03 / 06/30/03

Lab: SRI

ANIMAL NUM: 267

TMT: 2

SEX: Female

DAY ON TEST: 669

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 110311

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                          |                           |
|-----------------------------|--------------------------|--------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                   | * Clitoral Gland          |
| * Esophagus                 | * Eye                    | * Gallbladder            | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic     | * Kidney                  |
| * Liver                     | * Lung                   | * Nose                   | * Ovary                   |
| * Pancreas                  | * Parathyroid Gland      | * Salivary Glands        | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thyroid Gland          | * Trachea                 |
| * Urinary Bladder           |                          |                          |                           |

INSUFFICIENT TISSUE

- \* Lymph Node, Mesenteric

OBSERVATIONS

- |   |               |                       |                      |
|---|---------------|-----------------------|----------------------|
| * Bone Marrow                               |               | Hyperplasia           | Moderate             |
| * Brain                                     |               | Compression           | Marked               |
|   |               | Necrosis              | Mild                 |
| [ Compression TGLs = 4-1 ]                  |               |                       |                      |
| * Intestine Small, Jejunum                  | Epithelium    | Hyperplasia           | Moderate             |
|   |               | Hyperplasia           | Lymphoid, Moderate   |
| [ Hyperplasia TGLs = 3-3 ]                  |               |                       |                      |
| * Lymph Node, Mandibular                    |               | Atrophy               | Mild                 |
| * Mammary Gland                             |               | Hyperplasia           | Moderate             |
| * Pituitary Gland                           | Pars Distalis | Adenoma               |                      |
| [ Adenoma TGLs = 5-21 ]                     |               |                       |                      |
| * Spleen                                    |               | Pigmentation          | Moderate             |
| * Thymus                                    |               | Atrophy               | Mild                 |
| * Urin Bladder                              |               |                       |                      |
| Note: INFUSION ARTIFACT IN URINARY BLADDER. |               |                       |                      |
| * Uterus                                    | Endometrium   | Hyperplasia           | Cystic, Moderate     |
|   |               | Infiltration Cellular | Histiocyte, Moderate |
|   |               | Pigmentation          | Moderate             |
| [ Infiltration Cellular TGLs = 2-7 ]        |               |                       |                      |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 267

**TMT:** 2

**SEX:** Female

**DAY ON TEST:** 669

**DOSE:** 0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:** 110311

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Pigmentation TGLs = 2-7 ]

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PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Intestine Small, Jejunum Hyperplasia

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TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 268

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110312

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Infiltration Cellular	Lymphocyte, Mild
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 1-21 ]		
	Lymph Node	Iliac	Ectasia
	[ Ectasia TGLs = 3-22 ]		Marked
* Ovary		Cyst	Moderate
* Spleen	Lymph Follic	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	[ Hyperplasia TGLs = 2-7 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 269

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Moribund Sacrifice

DAY ON TEST: 320  
HISTO: 110313

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	Skeletal Muscle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	[ Hyperplasia TGLs = 2-21 ]		
* Spleen	Lymph Follic	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 270

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110314

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Cyst Epithelial Inclusion	
* Liver		Basophilic Focus	
* Ovary		Cyst	Moderate
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
	Lymph Follic	Hyperplasia	Moderate
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Angiectasis	Marked
	Endometrium	Hyperplasia	Cystic, Mild

[ Hyperplasia TGLs = 1-7 ]

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 271

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110315

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Cyst	Moderate
		Infiltration Cellular	Lymphocyte, Moderate
* Liver		Hepatocellular Adenoma	Multiple
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: HEPATOCELLULAR ADENOMAS ARE ON SLIDES 6, 21, 22, AND 23. [ Hepatocellular Adenoma TGLs = 3-21,4-22,5-23 ]			
* Lung		Infiltration Cellular	Lymphocyte, Moderate
* Pancreas		Infiltration Cellular	Lymphocyte, Moderate
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLs = 2-6 ]		
* Thyroid Gland	Follicle	Degeneration	Focal, Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLs = 1-7 ]		



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 272

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Natural Death

DAY ON TEST: 628  
 HISTO: 110316

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                          |                            |                          |
|---------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Cortex          | * Adrenal Medulla        | * Bone                     | * Brain                  |
| * Clitoral Gland          | * Esophagus              | * Eye                      | * Gallbladder            |
| * Harderian Gland         | * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Lymph Node, Mandibular  | * Mammary Gland          | * Nose                     | * Ovary                  |
| * Pancreas                | * Parathyroid Gland      | * Pituitary Gland          | * Salivary Glands        |
| * Stomach, Forestomach    | * Stomach, Glandular     | * Trachea                  | * Urinary Bladder        |
| * Uterus                  |                          |                            |                          |

AUTO PRECLUDES DIAG.

- \* Intestine Small, Duodenum

OBSERVATIONS

- |                          |   |                                  |                    |
|--------------------------|---|----------------------------------|--------------------|
| * Bone Marrow            |   | Hyperplasia                      | Marked             |
| * Kidney                 |   | Nephropathy                      | Mild               |
| * Liver                  |   | Hematopoietic Cell Proliferation | Moderate           |
|                          |   | Tension Lipidosis                |                    |
|                          | Hepatocyte                                      | Vacuolization Cytoplasmic        | Moderate           |
| * Lung                   |   | Fibrosarcoma                     | Metastatic (Skin)  |
| * Lymph Node, Mesenteric |   | Hyperplasia                      | Lymphoid, Moderate |
| * Skin                   | Subcut Tiss                                     | Fibrosarcoma                     |                    |
|                          | [ Fibrosarcoma TGLs = 1-21 ]                    |                                  |                    |
| * Spleen                 |   | Hematopoietic Cell Proliferation | Marked             |
|                          | [ Hematopoietic Cell Proliferation TGLs = 3-6 ] |                                  |                    |
| * Thymus                 |   | Atrophy                          | Moderate           |
| * Thyroid Gland          | Follicle  | Degeneration                     | Focal, Moderate    |

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 273

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110317

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder              |
| * 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                     |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

OBSERVATIONS

- |                          |   |                                  |                    |
|--------------------------|---|----------------------------------|--------------------|
| * Bone Marrow            |   | Hyperplasia                      | Moderate           |
| * Lymph Node, Mandibular |   | Hyperplasia                      | Lymphoid, Mild     |
| * Lymph Node, Mesenteric |   | Hyperplasia                      | Lymphoid, Moderate |
| * Ovary                  |   | Cyst                             | Moderate           |
|                          |   | Hemorrhage                       | Mild               |
| * Spleen                 |   | Hematopoietic Cell Proliferation | Moderate           |
|                          | Lymph Follic                                    | Hyperplasia                      | Mild               |
|                          | [ Hematopoietic Cell Proliferation TGLs = 3-6 ] |                                  |                    |
|                          | [ Hyperplasia TGLs = 3-6 ]                      |                                  |                    |
| * Thymus                 |   | Hemorrhage                       | Moderate           |
|                          |   | Lymphoma Malignant               |                    |
|                          | [ Hemorrhage TGLs = 4-3 ]                       |                                  |                    |
|                          | [ Lymphoma Malignant TGLs = 4-3 ]               |                                  |                    |
| * Urin Bladder           |   |                                  |                    |
|                          | Note: INFUSION ARTIFACT IN URINARY BLADDER.     |                                  |                    |
| * Uterus                 | Endometrium                                     | Hyperplasia                      | Cystic, Marked     |
|                          | [ Hyperplasia TGLs = 1-7,2-7 ]                  |                                  |                    |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 274

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Accidentally Killed

DAY ON TEST: 142  
HISTO: 110318

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Pituitary Gland

OBSERVATIONS

* Bone	Fracture	
[ Fracture TGLs = 1-21 ]		
* Skin	Ulcer	Moderate
[ Ulcer TGLs = 2-21 ]		

PRIMARY CAUSE OF DEATH - Bone Fracture

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 275

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110319

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Minimal
Mesentery	Fat	Necrosis	Minimal
[ Necrosis TGLs = 1-21 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
[ Hyperplasia TGLs = 2-7 ]			

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 276

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110320

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Kidney                  | * Lung                      | * Mammary Gland          | * Nose                     |
| * Ovary                   | * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

OBSERVATIONS

- |   |   |                                  |                   |
|---|---|----------------------------------|-------------------|
| * Bone Marrow                               |   | Hyperplasia                      | Moderate          |
| * Islets, Pancreatic                        |   | Hyperplasia                      | Minimal           |
| * Liver                                     |   | Hematopoietic Cell Proliferation | Moderate          |
|   |   | Histiocytic Sarcoma              |                   |
|   | [ Hematopoietic Cell Proliferation TGLs = 5-6 ] |                                  |                   |
|   | [ Histiocytic Sarcoma TGLs = 5-6 ]              |                                  |                   |
| Lymph Node                                  | Pancreatic                                      | Histiocytic Sarcoma              |                   |
| * Lymph Node, Mandibular                    |   | Hematopoietic Cell Proliferation | Mild              |
| * Lymph Node, Mesenteric                    |   | Histiocytic Sarcoma              |                   |
| * Pancreas                                  |   | Histiocytic Sarcoma              |                   |
| * Spleen                                    |   | Hematopoietic Cell Proliferation | Marked            |
|   |   | Histiocytic Sarcoma              |                   |
|   | [ Hematopoietic Cell Proliferation TGLs = 2-6 ] |                                  |                   |
|   | [ Histiocytic Sarcoma TGLs = 2-6,3-21 ]         |                                  |                   |
| * Thymus                                    |   | Hyperplasia                      | Lymphoid, Minimal |
| * Thyroid Gland                             | Follicle  | Degeneration                     | Focal, Mild       |
| * Urin Bladder                              |   |                                  |                   |
| Note: INFUSION ARTIFACT IN URINARY BLADDER. |   |                                  |                   |
| * Uterus                                    | Endometrium                                     | Hyperplasia                      | Cystic, Moderate  |
|   | [ Hyperplasia TGLs = 4-7 ]                      |                                  |                   |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 277

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 733  
HISTO: 110321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Ovary	* Parathyroid Gland
---------	---------------------

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Kidney		Infarct	Moderate
		Nephropathy	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLs = 1-7 ]			

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 278

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 733  
HISTO: 110322

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Harderian Gland [ Adenoma TGLs = 5-12 ]	Adenoma	
* Liver [ Angiectasis TGLs = 2-6,3-21 ]	Angiectasis Infiltration Cellular	Moderate Lymphocyte, Moderate
* Lung [ Alveolar/Bronchiolar Adenoma TGLs = 4-2 ]	Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric	Hyperplasia	Lymphoid, Marked
* Salivary Glands	Infiltration Cellular	Lymphocyte, Moderate
* Spleen	Hematopoietic Cell Proliferation	Minimal
	Lymph Follic	Mild
* Urin Bladder Note: INFUSION ARTIFACT IN URINARY BLADDER.	Hyperplasia	

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 279

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 733  
HISTO: 110323

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Lung		Thrombosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

[ Hyperplasia TGLs = 1-7 ]



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 280

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 733  
HISTO: 110324

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Ovary		Cyst	Moderate
[ Cyst TGLs = 1-7 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Thrombosis	Moderate
[ Hyperplasia TGLs = 2-7 ]			

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 281

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110325

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Clitoral Gland          |
| * Esophagus                 | * Eye                    | * Gallbladder              | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lymph Node, Mesenteric    | * Nose                   | * Ovary                    | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

OBSERVATIONS

- |                          |                                      |                                  |                      |
|--------------------------|--------------------------------------|----------------------------------|----------------------|
| * Bone Marrow            |                                      | Hyperplasia                      | Mild                 |
| * Brain                  | Cranial Nerve                        | Schwannoma Malignant             |                      |
|                          | [ Schwannoma Malignant TGLs = 3-21 ] |                                  |                      |
| * Kidney                 |                                      | Cyst                             | Moderate             |
|                          |                                      | Infiltration Cellular            | Lymphocyte, Mild     |
| * Liver                  |                                      | Inflammation                     | Chronic Active, Mild |
| * Lung                   |                                      | Infiltration Cellular            | Lymphocyte, Mild     |
| * Lymph Node, Mandibular |                                      | Hyperplasia                      | Lymphoid, Mild       |
|                          |                                      | Pigmentation                     | Moderate             |
| * Mammary Gland          |                                      | Hyperplasia                      | Minimal              |
| * Spleen                 |                                      | Amyloid Deposition               | Moderate             |
|                          |                                      | Hematopoietic Cell Proliferation | Moderate             |
| * Uterus                 | Endometrium                          | Hyperplasia                      | Cystic, Marked       |
|                          | [ Hyperplasia TGLs = 1-7 ]           |                                  |                      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 282

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 733  
HISTO: 110326

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

Mesentery [ Necrosis TGLs = 3-21 ]	Fat	Necrosis	Mild
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 283

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110327

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Adenoma	
	[ Adenoma TGLs = 4-12 ]		
* Kidney		Metaplasia	Osseous, Moderate
* Liver		Eosinophilic Focus	
	[ Eosinophilic Focus TGLs = 2-6 ]		
* Lung		Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Hemorrhage	Moderate
		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Moderate
	[ Hemorrhage TGLs = 3-21 ]		
	[ Hyperplasia TGLs = 3-21 ]		
	[ Pigmentation TGLs = 3-21 ]		
* Ovary		Hemorrhage	Moderate
* Parathyroid Gland		Cyst	Moderate
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[ Hyperplasia TGLs = 1-7 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 284

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110328

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Salivary Glands          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

OBSERVATIONS

- |                   |                                  |                                  |                 |
|-------------------|----------------------------------|----------------------------------|-----------------|
| * Adrenal Cortex  |                                  | Degeneration                     | Fatty, Moderate |
| * Kidney          |                                  | Nephropathy                      | Minimal         |
| * Liver           |                                  | Mixed Cell Focus                 |                 |
|                   |                                  | Necrosis                         | Focal, Minimal  |
|                   | [ Mixed Cell Focus TGLs = 5-21 ] |                                  |                 |
| * Mammary Gland   |                                  | Hyperplasia                      | Minimal         |
| * Ovary           |                                  | Cyst                             | Moderate        |
|                   | [ Cyst TGLs = 3-7 ]              |                                  |                 |
| * Pituitary Gland | Pars Distalis                    | Adenoma                          |                 |
| * Spleen          |                                  | Hematopoietic Cell Proliferation | Minimal         |
| * Uterus          | Endometrium                      | Hyperplasia                      | Cystic, Marked  |
|                   | [ Hyperplasia TGLs = 1-7,2-7 ]   |                                  |                 |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 285

TMT: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110329

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Liver		Hepatocellular Adenoma	
* Ovary		Cyst	Moderate
		Hemorrhage	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLs = 1-7,2-7 ]

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 286

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Liver		Inflammation	Chronic Active, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLs = 2-21 ]			
* Ovary		Cyst	Moderate
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
[ Hematopoietic Cell Proliferation TGLs = 3-6 ]			
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLs = 1-7 ]			

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 287

TMT: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

INSUFFICIENT TISSUE

* Gallbladder	* Lymph Node, Mesenteric
---------------	--------------------------

OBSERVATIONS

* Lung		Alveolar/Bronchiolar Adenoma	Multiple
* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

Animal Note: TGL 1 = NCL (No Corresponding Lesion)



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 288

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 732  
HISTO: 110332

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Harderian Gland		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 3-21 ]		
* Parathyroid Gland		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[ Hyperplasia TGLs = 2-7 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 289

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Clitoral Gland          | * Esophagus                 | * Eye                    |
| * Gallbladder              | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      | * Ovary                  |
| * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 |
| * Trachea                  | * Urinary Bladder         |                             |                          |

OBSERVATIONS

- |                 |  |                                  |                |
|-----------------|--|----------------------------------|----------------|
| * Liver         |  | Eosinophilic Focus               |                |
|                 | [ Eosinophilic Focus TGLs = 1-6 ]            |                                  |                |
| * Lung          |  | Alveolar/Bronchiolar Adenoma     |                |
|                 | [ Alveolar/Bronchiolar Adenoma TGLs = 3-21 ] |                                  |                |
| * Spleen        |  | Hematopoietic Cell Proliferation | Mild           |
| * Thyroid Gland | Follicle                                     | Degeneration                     | Focal, Mild    |
| * Urin Bladder  |  |                                  |                |
|                 | Note: INFUSION ARTIFACT IN URINARY BLADDER.  |                                  |                |
| * Uterus        | Endometrium                                  | Hyperplasia                      | Cystic, Marked |
|                 | [ Hyperplasia TGLs = 2-7 ]                   |                                  |                |

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 290

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 683  
HISTO: 110334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                             |
|--------------------------|----------------------------|--------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                   | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Eye                    | * Harderian Gland           |
| * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Kidney                    |
| * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric | * Mammary Gland             |
| * Nose                   | * Pancreas                 | * Parathyroid Gland      | * Pituitary Gland           |
| * Salivary Glands        | * Skin                     | * Stomach, Forestomach   | * Stomach, Glandular        |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder        | * Uterus                    |

MISSING

- \* Thymus

AUTO PRECLUDES DIAG.

- \* Gallbladder

INSUFFICIENT TISSUE

- \* Intestine Large, Rectum

OBSERVATIONS

- |               |   |                                  |          |
|---------------|---|----------------------------------|----------|
| * Bone Marrow |   | Hyperplasia                      | Mild     |
| * Liver       |   | Hepatocellular Carcinoma         | Multiple |
|               | Hepatocyte                                    | Vacuolization Cytoplasmic        | Mild     |
|               | [ Hepatocellular Carcinoma TGLs = 1-21,2-22 ] |                                  |          |
| * Ovary       |   | Cyst                             | Moderate |
| * Spleen      |   | Hematopoietic Cell Proliferation | Moderate |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 291

TMT: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 3-22 ]		
* Lung		Hemorrhage	Minimal
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLs = 1-21 ]		
* Stomach, Glandular		Cyst	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[ Hyperplasia TGLs = 2-7 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 292

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110336

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 2-21 ]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Ovary		Hemorrhage	Mild
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
	Lymph Follic	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	[ Hyperplasia TGLs = 1-7 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 293

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110337

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Lung                   | * Mammary Gland            |
| * Nose                    | * Parathyroid Gland         | * Pituitary Gland        | * Skin                     |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 | * Trachea                  |
| * Urinary Bladder         | * Uterus                    |                          |                            |

OBSERVATIONS

- |                          |   |                                  |                         |
|--------------------------|---|----------------------------------|-------------------------|
| * Bone Marrow            |   | Hyperplasia                      | Mild                    |
| * Liver                  |   | Hepatocellular Adenoma           | Multiple                |
|                          |   | Inflammation                     | Chronic Active, Minimal |
|                          | [ Hepatocellular Adenoma TGLs = 4-6,5-23 ]      |                                  |                         |
| * Lymph Node, Mandibular |   | Hyperplasia                      | Lymphoid, Mild          |
| * Lymph Node, Mesenteric |   | Hyperplasia                      | Lymphoid, Mild          |
| Mesentery                | Fat   | Necrosis                         | Moderate                |
|                          | [ Necrosis TGLs = 3-22 ]                        |                                  |                         |
| * Ovary                  |   | Cyst                             | Moderate                |
| * Pancreas               |   | Infiltration Cellular            | Lymphocyte, Moderate    |
| * Salivary Glands        |   | Infiltration Cellular            | Lymphocyte, Moderate    |
| Skeletal Muscle          |   | Rhabdomyosarcoma                 |                         |
|                          | [ Rhabdomyosarcoma TGLs = 1-21 ]                |                                  |                         |
| * Spleen                 |   | Hematopoietic Cell Proliferation | Moderate                |
|                          | Lymph Follic                                    | Hyperplasia                      | Mild                    |
|                          | [ Hematopoietic Cell Proliferation TGLs = 2-6 ] |                                  |                         |
|                          | [ Hyperplasia TGLs = 2-6 ]                      |                                  |                         |
| * Thyroid Gland          | Follicle  | Degeneration                     | Focal, Moderate         |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 294

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110338

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Bone Marrow              | * Brain                   |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Lung                   | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Nose                      | * Ovary                  | * Parathyroid Gland        | * Pituitary Gland         |
| * Salivary Glands           | * Skin                   | * Stomach, Forestomach     | * Thymus                  |
| * Trachea                   | * Urinary Bladder        |                            |                           |

OBSERVATIONS

- |                          |  |                                   |                  |
|--------------------------|--|-----------------------------------|------------------|
| * Adrenal Cortex         |  | Accessory Adrenal Cortical Nodule | Moderate         |
| * Harderian Gland        |  | Adenoma                           |                  |
|                          | [ Adenoma TGLs = 3-12 ]                  |                                   |                  |
| * Liver                  |  | Hepatocellular Adenoma            |                  |
|                          |  | Hepatocellular Carcinoma          |                  |
|                          |  | Infiltration Cellular             | Lymphocyte, Mild |
|                          | [ Hepatocellular Adenoma TGLs = 2-6 ]    |                                   |                  |
|                          | [ Hepatocellular Carcinoma TGLs = 1-21 ] |                                   |                  |
| * Lymph Node, Mandibular |  | Hematopoietic Cell Proliferation  | Mild             |
|                          |  | Pigmentation                      | Moderate         |
| * Pancreas               |  | Basophilic Focus                  |                  |
| * Spleen                 |  | Hematopoietic Cell Proliferation  | Minimal          |
|                          | Lymph Follic                             | Hyperplasia                       | Moderate         |
| * Stomach, Glandular     |  | Cyst                              | Moderate         |
| * Thyroid Gland          | Follicle                                 | Degeneration                      | Focal, Mild      |
| * Uterus                 | Endometrium                              | Hyperplasia                       | Cystic, Moderate |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 295

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110339

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLs = 6-23,7-24 ]		
* Lymph Node, Mesenteric		Ectasia	Marked
		Hemorrhage	Mild
		Lymphoma Malignant	
	[ Ectasia TGLs = 5-22 ]		
	[ Hemorrhage TGLs = 5-22 ]		
* Mammary Gland		Carcinoma	
	[ Carcinoma TGLs = 1-8 ]		
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLs = 4-21 ]		
* Ovary		Cyst	Moderate
	[ Cyst TGLs = 3-7 ]		
* Salivary Glands		Lymphoma Malignant	
* Spleen	Lymph Follic	Hyperplasia	Moderate
* Thymus		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[ Hyperplasia TGLs = 2-7 ]		

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 296

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 733  
HISTO: 110340

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Liver		Eosinophilic Focus	
* Ovary		Hemorrhage	Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Mild
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

[ Hyperplasia TGLs = 1-7 ]





TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 298

TMT: 2  
DOSE: 0 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 580  
HISTO: 110342

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* 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	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Parathyroid Gland

AUTO PRECLUDES DIAG.

\* Gallbladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Hyperplasia	Lymphoid, Moderate
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
[ Hyperplasia TGLs = 1-7 ]			

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 299

TMT: 2

SEX: Female

DAY ON TEST: 246

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 110343

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Lymph Node, Mesenteric

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Stomach, Glandular

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Liver	Necrosis	Focal, Marked
[ Necrosis TGLs = 2-21 ]		
* Nose	Foreign Body	
* Ovary	Choriocarcinoma	
[ Choriocarcinoma TGLs = 1-22 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH - Ovary Choriocarcinoma

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 300

TMT: 2  
 DOSE: 0 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110344

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Eye		Inflammation	Chronic, Minimal
* Gallbladder	Epithelium	Cytoplasmic Alteration	Mild
		Inflammation	Acute, Minimal
* Kidney		Inflammation	Chronic, Moderate
		Nephropathy	Marked
	[ Inflammation TGLs = 5-5 ]		
	[ Nephropathy TGLs = 5-5 ]		
* Liver		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Ectasia	Moderate
	Iliac	Hematopoietic Cell Proliferation	Mild
	Mediastinal	Lymphoma Malignant	
	Iliac	Lymphoma Malignant	
	Renal	Lymphoma Malignant	

Note: MALIGNANT LYMPHOMA PRESENT IN PANCREATIC LYMPH NODE (SLIDE 7); NOT TABULATED SINCE PANCREATIC LYMPH NODE IS NOT A PROTOCOL-REQUIRED TISSUE.

[ Ectasia TGLs = 9-3 ]  
 [ Hematopoietic Cell Proliferation TGLs = 7-21 ]  
 [ Lymphoma Malignant TGLs = 9-3 ]  
 [ Lymphoma Malignant TGLs = 7-21 ]  
 [ Lymphoma Malignant TGLs = 8-22 ]

\* Lymph Node, Mandibular Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 300

TMT: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 110344

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [ Lymphoma Malignant TGLs = 6-5 ]		Lymphoma Malignant	
* Mammary Gland		Hyperplasia	Minimal
* Ovary [ Cyst TGLs = 1-7 ]		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen [ Lymphoma Malignant TGLs = 3-6 ]		Lymphoma Malignant	
* Uterus [ Hyperplasia TGLs = 2-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

Animal Note: MODERATE MINERALIZATION IN AORTA (SLIDE 3); NOT TABULATED SINCE "BLOOD VESSEL" IS NOT LISTED ON SCREEN AS PROTOCOL-REQUIRED TISSUE.

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 301

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110345

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Kidney		Cyst	Moderate
		Infarct	Mild
	[ Cyst TGLs = 2-5 ]		
* Liver		Necrosis	Focal, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
		Necrosis	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
	Lymph Follicle	Hyperplasia	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	[ Hyperplasia TGLs = 1-7 ]		



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 302

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110346

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Liver                   |
| * Lung                      | * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    |
| * Ovary                     | * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         |
| * Salivary Glands           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thymus                    | * Trachea                | * Urinary Bladder          |                           |

OBSERVATIONS

- |                            |             |                                  |                    |
|----------------------------|-------------|----------------------------------|--------------------|
| * Eye                      |             | Atrophy                          | Marked             |
|                            |             | Inflammation                     | Chronic, Moderate  |
| * Harderian Gland          |             | Carcinoma                        |                    |
| [ Carcinoma TGLs = 2-12 ]  |             |                                  |                    |
| * Islets, Pancreatic       |             | Adenoma                          |                    |
| * Kidney                   |             | Nephropathy                      | Minimal            |
| * Lymph Node, Mandibular   |             | Hyperplasia                      | Lymphoid, Moderate |
| * Spleen                   |             | Hematopoietic Cell Proliferation | Moderate           |
| * Thyroid Gland            | Follicle    | Degeneration                     | Focal, Moderate    |
| * Uterus                   | Endometrium | Hyperplasia                      | Cystic, Mild       |
| [ Hyperplasia TGLs = 1-7 ] |             |                                  |                    |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 303

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Moribund Sacrifice

DAY ON TEST: 677  
 HISTO: 110347

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Brain                   |
| * Clitoral Gland            | * Eye                    | * Gallbladder              | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mesenteric | * Nose                     | * Ovary                   |
| * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

MISSING

- \* Esophagus

OBSERVATIONS

- |                          |  |                                  |                          |
|--------------------------|--|----------------------------------|--------------------------|
| * Bone Marrow            |  | Hyperplasia                      | Moderate                 |
| * Kidney                 |  | Infiltration Cellular            | Lymphocyte, Moderate     |
|                          |  | Nephropathy                      | Minimal                  |
| * Liver                  |  | Hepatocellular Carcinoma         |                          |
|                          |  | Infiltration Cellular            | Lymphocyte, Moderate     |
|                          |  | Inflammation                     | Chronic Active, Moderate |
|                          |  | Necrosis                         | Diffuse, Mild            |
|                          | [ Hepatocellular Carcinoma TGLs = 4-21 ] |                                  |                          |
| * Lymph Node, Mandibular |  | Hyperplasia                      | Lymphoid, Moderate       |
| * Mammary Gland          |  | Hyperplasia                      | Minimal                  |
| * Salivary Glands        |  | Infiltration Cellular            | Lymphocyte, Moderate     |
| Skeletal Muscle          |  | Sarcoma                          |                          |
|                          | [ Sarcoma TGLs = 5-22 ]                  |                                  |                          |
| * Skin                   | Subcut Tiss                              | Inflammation                     | Chronic Active, Moderate |
|                          |  | Inflammation                     | Chronic Active, Mild     |
|                          |  | Ulcer                            | Marked                   |
|                          | [ Ulcer TGLs = 6-23 ]                    |                                  |                          |
| * Spleen                 | Lymph Follic                             | Hematopoietic Cell Proliferation | Marked                   |
|                          |  | Hyperplasia                      | Mild                     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 303

TMT: 4

SEX: Female

DAY ON TEST: 677

DOSE: 3 MG/KG

DISP: Moribund Sacrifice

HISTO: 110347

ORGAN AND ACCOUNTABLE SITE STATUS

[ Hematopoietic Cell Proliferation	TGLs = 2-6 ]		
[ Hyperplasia	TGLs = 2-6 ]		
* Uterus		Angiectasis	Mild
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia	TGLs = 3-7 ]		

PRIMARY CAUSE OF DEATH - Skeletal Muscle Sarcoma  
CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 304

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110348

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Clitoral Gland          | * Esophagus                 | * Eye                    |
| * Gallbladder              | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nose                     | * Pancreas                | * Parathyroid Gland         | * Salivary Glands        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

OBSERVATIONS

- |                          |   |                                  |                      |
|--------------------------|---|----------------------------------|----------------------|
| * Kidney                 |   | Nephropathy                      | Minimal              |
| * Liver                  |   | Inflammation                     | Chronic Active, Mild |
| * Lung                   |   | Alveolar/Bronchiolar Carcinoma   |                      |
|                          | [ Alveolar/Bronchiolar Carcinoma TGLs = 1-2 ] |                                  |                      |
| * Lymph Node, Mandibular |   | Pigmentation                     | Moderate             |
| * Ovary                  |   | Cyst                             | Moderate             |
| * Pituitary Gland        | Pars Distalis                                 | Adenoma                          |                      |
|                          | Pars Distalis                                 | Hyperplasia                      | Focal, Minimal       |
| * Spleen                 |   | Hematopoietic Cell Proliferation | Mild                 |
| * Thymus                 |   | Lymphoma Malignant               |                      |
| * Thyroid Gland          | Follicle                                      | Degeneration                     | Focal, Minimal       |
| * Uterus                 | Endometrium                                   | Hyperplasia                      | Cystic, Marked       |
|                          | [ Hyperplasia TGLs = 2-7 ]                    |                                  |                      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 306

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110350

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Clitoral Gland          | * Esophagus                 | * Eye                    |
| * Gallbladder              | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney                  | * Lung                      | * Lymph Node, Mandibular |
| * Mammary Gland            | * Nose                    | * Ovary                     | * Pancreas               |
| * Skin                     | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Trachea                  | * Urinary Bladder         | * Uterus                    |                          |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                            |               |                           |                  |
|----------------------------|---------------|---------------------------|------------------|
| * Islets, Pancreatic       |               | Cyst                      | Mild             |
| * Liver                    |               | Basophilic Focus          |                  |
|                            |               | Eosinophilic Focus        |                  |
|                            |               | Hepatocellular Carcinoma  |                  |
|                            |               | Mixed Cell Focus          |                  |
|                            | Hepatocyte    | Vacuolization Cytoplasmic | Marked           |
| [ Hepatocellular Carcinoma | TGLs = 3-21 ] |                           |                  |
| * Lymph Node, Mesenteric   |               | Hyperplasia               | Lymphoid, Mild   |
| * Pituitary Gland          | Pars Distalis | Adenoma                   |                  |
| * Salivary Glands          |               | Infiltration Cellular     | Lymphocyte, Mild |
| * Thymus                   |               | Hemorrhage                | Moderate         |
| [ Hemorrhage               | TGLs = 4-3 ]  |                           |                  |
| * Thyroid Gland            | Follicle      | Cyst                      | Moderate         |

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 307

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110351

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Mammary Gland            |
| * Nose                    | * Ovary                     | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

OBSERVATIONS

- |                          |   |                                  |                      |
|--------------------------|---|----------------------------------|----------------------|
| * Bone Marrow            |   | Hyperplasia                      | Mild                 |
| * Kidney                 |   | Infiltration Cellular            | Lymphocyte, Moderate |
| * Liver                  |   | Clear Cell Focus                 |                      |
|                          |   | Hematopoietic Cell Proliferation | Minimal              |
|                          | [ Clear Cell Focus TGLs = 5-6 ]                 |                                  |                      |
| * Lymph Node, Mesenteric |   | Hemorrhage                       | Mild                 |
|                          |   | Hyperplasia                      | Lymphoid, Mild       |
|                          | [ Hemorrhage TGLs = 4-21 ]                      |                                  |                      |
|                          | [ Hyperplasia TGLs = 4-21 ]                     |                                  |                      |
| * Spleen                 |   | Hematopoietic Cell Proliferation | Moderate             |
|                          | [ Hematopoietic Cell Proliferation TGLs = 3-6 ] |                                  |                      |
| * Urin Bladder           |   |                                  |                      |
|                          | Note: INFUSION ARTIFACT IN URINARY BLADDER.     |                                  |                      |
| * Uterus                 | Myometrium                                      | Hypertrophy                      | Moderate             |
|                          |   | Sarcoma Stromal                  |                      |
|                          | [ Hypertrophy TGLs = 1-7 ]                      |                                  |                      |
|                          | [ Sarcoma Stromal TGLs = 2-7 ]                  |                                  |                      |

Animal Note: FOCUS OF MODERATE PYOGRANULOMATOUS INFLAMMATION IN MESENTERY ADJACENT TO CECUM ON SLIDE 4.

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 308

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Brain                  | * Esophagus                |
| * Eye                     | * Gallbladder               | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Mammary Gland             | * Pituitary Gland        | * Thyroid Gland            |
| * Trachea                 |                             |                          |                            |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                      |                     |                               |          |
|----------------------|---------------------|-------------------------------|----------|
| * Adrenal Cortex     |                     | Lymphoma Malignant            |          |
| [ Lymphoma Malignant | TGLs = 10-10 ]      |                               |          |
| * Bone Marrow        |                     | Lymphoma Malignant            |          |
| * Clitoral Gland     |                     | Lymphoma Malignant            |          |
| * Harderian Gland    |                     | Lymphoma Malignant            |          |
| * Heart              |                     | Lymphoma Malignant            |          |
| [ Lymphoma Malignant | TGLs = 19-12 ]      |                               |          |
| * Kidney             | Renal Tubule        | Accumulation, Hyaline Droplet | Moderate |
| [ Lymphoma Malignant | TGLs = 11-25,12-5 ] | Lymphoma Malignant            |          |
| * Liver              |                     | Lymphoma Malignant            |          |
| [ Lymphoma Malignant | TGLs = 15-6 ]       |                               |          |
| * Lung               |                     | Lymphoma Malignant            |          |
| [ Lymphoma Malignant | TGLs = 20-26 ]      |                               |          |
| Lymph Node           | Mediastinal         | Lymphoma Malignant            |          |
|                      | Renal               | Lymphoma Malignant            |          |
|                      | Iliac               | Lymphoma Malignant            |          |
|                      | Deep Cervical       | Lymphoma Malignant            |          |
| [ Lymphoma Malignant | TGLs = 18-3 ]       |                               |          |
| [ Lymphoma Malignant | TGLs = 4-21 ]       |                               |          |
| [ Lymphoma Malignant | TGLs = 13-22 ]      |                               |          |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**ANIMAL NUM:** 308

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 3 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 110352

**ORGAN AND ACCOUNTABLE SITE STATUS**

	[ Lymphoma Malignant	TGLs = 14-23 ]		
	[ Lymphoma Malignant	TGLs = 16-24 ]		
* Lymph Node, Mandibular			Lymphoma Malignant	
	[ Lymphoma Malignant	TGLs = 2-8 ]		
* Lymph Node, Mesenteric			Lymphoma Malignant	
* Nose			Inflammation	Chronic, Minimal
			Lymphoma Malignant	
* Ovary			Lymphoma Malignant	
	[ Lymphoma Malignant	TGLs = 8-7 ]		
* Pancreas			Lymphoma Malignant	
	[ Lymphoma Malignant	TGLs = 5-7 ]		
* Salivary Glands			Lymphoma Malignant	
	[ Lymphoma Malignant	TGLs = 3-8 ]		
* Skin			Edema	Moderate
			Lymphoma Malignant	
	[ Edema	TGLs = 1-8 ]		
* Spleen	[ Lymphoma Malignant	TGLs = 1-8 ]	Hematopoietic Cell Proliferation	Moderate
			Lymphoma Malignant	
	[ Hematopoietic Cell Proliferation	TGLs = 6-6 ]		
	[ Lymphoma Malignant	TGLs = 6-6 ]		
* Stomach, Forestomach			Lymphoma Malignant	
* Stomach, Glandular			Lymphoma Malignant	
* Thymus			Lymphoma Malignant	
	[ Lymphoma Malignant	TGLs = 17-3 ]		
* Urinary Bladder			Lymphoma Malignant	
* Uterus			Lymphoma Malignant	
	[ Lymphoma Malignant	TGLs = 7-7 ]		

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 309

TMT: 4  
DOSE: 3 MG/KG

SEX: Female  
DISP: Moribund Sacrifice

DAY ON TEST: 554  
HISTO: 110353

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone		Fibrosis	Mild
* Bone Marrow		Angiectasis	Moderate
		Hyperplasia	Mild
		Myelofibrosis	Mild
* Brain	Artery, Meninges	Inflammation	Chronic Active, Mild
Mesentery	Fat	Necrosis	Minimal
	[ Necrosis TGLs = 2-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Artery	Inflammation	Chronic Active, Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010

Time Report Requested: 13:38:29

First Dose M/F: 06/30/03 / 06/30/03

Lab: SRI

ANIMAL NUM: 310

TMT: 4

SEX: Female

DAY ON TEST: 4

DOSE: 3 MG/KG

DISP: Dosing Accident

HISTO: 110354

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla          | * Bone                    | * Brain                     | * Clitoral Gland         |
| * 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, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                   |
| * Ovary                    | * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        |
| * Salivary Glands          | * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thyroid Gland            | * Trachea                 | * Urinary Bladder           | * Uterus                 |

AUTO PRECLUDES DIAG.

- \* Gallbladder

OBSERVATIONS

- |   |                                   |                 |
|---|-----------------------------------|-----------------|
| * Adrenal Cortex                                  | Accessory Adrenal Cortical Nodule | Moderate        |
| * Bone Marrow                                     | Hyperplasia                       | Mild            |
| * Esophagus                                       | Inflammation                      | Acute, Moderate |
| [ Inflammation TGLs = 2-21 ]                      |                                   |                 |
| * Lung  | Foreign Body<br>Inflammation      | Acute, Moderate |
| Note: LESIONS INVOLVE THE MEDIASTINUM AND PLEURA. |                                   |                 |
| * Spleen  | Hematopoietic Cell Proliferation  | Mild            |
| * Thymus  | Atrophy                           | Moderate        |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 311

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110355

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Lymphoma Malignant	
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLs = 3-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
	[ Hematopoietic Cell Proliferation TGLs = 2-6 ]	Lymphoma Malignant	
	[ Lymphoma Malignant TGLs = 2-6 ]		
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	[ Hyperplasia TGLs = 1-7 ]		

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 312

TMT: 4  
DOSE: 3 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 732  
HISTO: 110356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Ovary

OBSERVATIONS

* Harderian Gland		Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
	Lymph Follic	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 313

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110357

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Clitoral Gland          | * Esophagus                 | * Eye                    |
| * Gallbladder              | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lymph Node, Mesenteric    | * Mammary Gland          |
| * Nose                     | * Ovary                   | * Pancreas                  | * Parathyroid Gland      |
| * Pituitary Gland          | * Salivary Glands         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

OBSERVATIONS

- |                          |  |                                  |                         |
|--------------------------|--|----------------------------------|-------------------------|
| * Kidney                 |  | Infarct                          | Moderate                |
|                          |  | Infiltration Cellular            | Lymphocyte, Moderate    |
| * Liver                  |  | Hepatocellular Carcinoma         |                         |
|                          | [ Hepatocellular Carcinoma TGLs = 3-21 ] |                                  |                         |
| * Lung                   |  | Fibrosis                         | Moderate                |
|                          |  | Foreign Body                     |                         |
|                          |  | Inflammation                     | Granulomatous, Moderate |
|                          | [ Fibrosis TGLs = 4-22 ]                 |                                  |                         |
|                          | [ Foreign Body TGLs = 4-22 ]             |                                  |                         |
|                          | [ Inflammation TGLs = 4-22 ]             |                                  |                         |
| * Lymph Node, Mandibular |  | Pigmentation                     | Moderate                |
| * Spleen                 |  | Hematopoietic Cell Proliferation | Mild                    |
|                          | Lymph Follic                             | Hyperplasia                      | Moderate                |
| * Uterus                 | Endometrium                              | Hyperplasia                      | Cystic, Marked          |
|                          |  | Leiomyosarcoma                   |                         |
|                          | [ Hyperplasia TGLs = 1-7,2-7 ]           |                                  |                         |
|                          | [ Leiomyosarcoma TGLs = 5-7 ]            |                                  |                         |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010

Time Report Requested: 13:38:29

First Dose M/F: 06/30/03 / 06/30/03

Lab: SRI

ANIMAL NUM: 314

TMT: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110358

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Clitoral Gland          | * Esophagus                 | * Eye                    |
| * Gallbladder              | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Lung                   |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Ovary                  |
| * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 |
| * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |                          |

OBSERVATIONS

- |          |   |                                  |                  |
|----------|---|----------------------------------|------------------|
| * Liver  |   | Hepatocellular Carcinoma         |                  |
|          | [ Hepatocellular Carcinoma TGLs = 3-21 ]        |                                  |                  |
| * Nose   |   | Inflammation                     | Chronic, Minimal |
| * Spleen |   | Hematopoietic Cell Proliferation | Moderate         |
|          | [ Hematopoietic Cell Proliferation TGLs = 2-6 ] | Lymphoma Malignant               |                  |
|          | [ Lymphoma Malignant TGLs = 2-6 ]               |                                  |                  |
| * Uterus | Endometrium                                     | Hyperplasia                      | Cystic, Minimal  |
|          | [ Hyperplasia TGLs = 1-7 ]                      |                                  |                  |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 315

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110359

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Pituitary Gland
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone		Fibrosis	Mild
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lung		Alveolar/Bronchiolar Carcinoma	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant	
	[ Hematopoietic Cell Proliferation TGLs = 1-6 ]		
	[ Lymphoma Malignant TGLs = 1-6 ]		
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[ Hyperplasia TGLs = 2-7 ]		

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 316

TMT: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110360

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLs = 3-21 ]			
* Ovary		Angiectasis	Moderate
		Cyst	Moderate
[ Angiectasis TGLs = 1-7 ]			
[ Cyst TGLs = 1-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

Animal Note: TGL 2 = NCL (No Corresponding Lesion)



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 317

TMT: 4  
DOSE: 3 MG/KG

SEX: Female  
DISP: Dosing Accident

DAY ON TEST: 3  
HISTO: 110361

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum
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OBSERVATIONS

* Esophagus	Inflammation	Acute, Moderate
[ Ulcer TGLs = 2-21 ]	Ulcer	Marked
* Lung	Foreign Body Inflammation	Chronic Active, Moderate
Note: INFLAMMATION AND FOREIGN BODY ARE WITHIN AIR PASSAGES.		
* Spleen	Lymph Follic	Mild
* Thymus	Hyperplasia Atrophy	Moderate

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 318

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Moribund Sacrifice

DAY ON TEST: 704  
 HISTO: 110362

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Liver		Eosinophilic Focus	
* Lymph Node, Mesenteric		Hemorrhage	Moderate
[ Hemorrhage TGLs = 4-22 ]			
* Pancreas		Sarcoma	Metastatic (Skin)
Note: THE SARCOMA METASTASIS IS ON SLIDE 4.			
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Skin	Subcut Tiss	Sarcoma	
[ Sarcoma TGLs = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
	Lymph Follic	Hyperplasia	Mild
[ Hematopoietic Cell Proliferation TGLs = 2-6 ]			
[ Hyperplasia TGLs = 2-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLs = 3-7 ]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Sarcoma

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 319

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110363

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Lung                   | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Nose                      | * Ovary                  | * Pancreas                 |
| * Parathyroid Gland       | * Salivary Glands           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Trachea                | * Urinary Bladder          |
| * Uterus                  |                             |                          |                            |

OBSERVATIONS

- |                   |  |                                  |                 |
|-------------------|--|----------------------------------|-----------------|
| * Bone Marrow     |  | Hyperplasia                      | Moderate        |
| * Liver           |  | Hepatocellular Carcinoma         |                 |
|                   | [ Hepatocellular Carcinoma TGLs = 4-22 ] |                                  |                 |
| * Mammary Gland   |  | Hyperplasia                      | Moderate        |
| Mesentery         | Fat                                      | Necrosis                         | Marked          |
|                   | [ Necrosis TGLs = 3-21 ]                 |                                  |                 |
| * Pituitary Gland | Pars Distalis                            | Adenoma                          |                 |
|                   | [ Adenoma TGLs = 5-1 ]                   |                                  |                 |
| * Spleen          |  | Hematopoietic Cell Proliferation | Moderate        |
| * Thyroid Gland   | Follicle                                 | Degeneration                     | Focal, Moderate |

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 320

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Bone                      | * Bone Marrow            | * Brain                    |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Lung                   | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                   | * Pancreas                 |
| * Parathyroid Gland       | * Pituitary Gland           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Trachea                   | * Urinary Bladder        |                            |

OBSERVATIONS

- |                   |                                 |                                  |                      |
|-------------------|---------------------------------|----------------------------------|----------------------|
| * Adrenal Medulla |                                 | Pheochromocytoma Benign          |                      |
| * Liver           |                                 | Mixed Cell Focus                 |                      |
|                   | [ Mixed Cell Focus TGLs = 1-7 ] |                                  |                      |
| * Ovary           |                                 | Cyst                             | Moderate             |
|                   |                                 | Hemorrhage                       | Mild                 |
| * Salivary Glands |                                 | Infiltration Cellular            | Lymphocyte, Moderate |
| * Spleen          |                                 | Hematopoietic Cell Proliferation | Mild                 |
|                   | Lymph Follic                    | Hyperplasia                      | Mild                 |
| * Thymus          |                                 | Hyperplasia                      | Lymphoid, Moderate   |
| * Thyroid Gland   | Follicle                        | Degeneration                     | Focal, Mild          |
| * Uterus          | Endometrium                     | Hyperplasia                      | Cystic, Moderate     |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 321

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Natural Death

DAY ON TEST: 694  
 HISTO: 110365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

MISSING

* Lymph Node, Mandibular	* Thymus
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

INSUFFICIENT TISSUE

\* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Histiocytic Sarcoma	
* Bone Marrow		Hyperplasia	Moderate
* Heart		Mineralization	Minimal
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
* Liver		Histiocytic Sarcoma	
		Histiocytic Sarcoma	
		Necrosis	Focal, Marked
	[ Histiocytic Sarcoma TGLs = 3-6 ]		
	[ Necrosis TGLs = 3-6,4-21 ]		
* Lung		Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
* Nose		Foreign Body	
* Ovary		Histiocytic Sarcoma	
* Spleen		Hematopoietic Cell Proliferation	Marked
* Urinary Bladder		Histiocytic Sarcoma	
* Uterus		Histiocytic Sarcoma	

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 321

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 694

**DOSE:** 3 MG/KG

**DISP:** Natural Death

**HISTO:** 110365

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Histiocytic Sarcoma TGLs = 2-7 ]

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**PRIMARY CAUSE OF DEATH** - Liver Histiocytic Sarcoma

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Animal Note: TGL 1 = NCL (No Corresponding Lesion)

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TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 322

TMT: 4

SEX: Female

DAY ON TEST: 733

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110366

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Spleen	Lymph Follic	Hyperplasia	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
[ Hyperplasia TGLs = 1-7,2-7 ]			

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 323

TMT: 4

SEX: Female

DAY ON TEST: 3

DOSE: 3 MG/KG

DISP: Dosing Accident

HISTO: 110367

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Eye	* Harderian Gland	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

INSUFFICIENT TISSUE

* Gallbladder	* Intestine Large, Cecum
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OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Esophagus	Inflammation	Acute, Marked
	Ulcer	Marked
[ Inflammation TGLs = 2-3,2-21 ]		
* Lung	Foreign Body	
	Inflammation	Acute, Moderate
* Nose	Foreign Body	
* Thymus	Atrophy	Moderate
	Inflammation	Chronic Active, Moderate



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 324

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Dosing Accident

DAY ON TEST: 5  
 HISTO: 110368

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Bone                    | * Brain                     | * Clitoral Gland         |
| * Eye                      | * Gallbladder             | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Liver                  |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Pancreas               |
| * Pituitary Gland          | * Salivary Glands         | * Skin                      | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |
| * Uterus                   |                           |                             |                          |

MISSING

- \* Parathyroid Gland

INSUFFICIENT TISSUE

- \* Adrenal Medulla
- \* Ovary

OBSERVATIONS

- |   |                                  |                        |
|---|----------------------------------|------------------------|
| * Bone Marrow   | Hyperplasia                      | Marked                 |
| * Esophagus   | Inflammation                     | Acute, Marked          |
|   | Ulcer                            | Marked                 |
| [ Ulcer TGLs = 5-21 ]   |                                  |                        |
| * Heart   | Inflammation                     | Acute, Mild            |
| * Lung  | Foreign Body                     |                        |
|   | Inflammation                     | Acute, Marked          |
| Note: INFLAMMATION AND FOREIGN BODY INVOLVE PRIMARILY THE PLEURA AND MEDIASTINUM AND TO A LESSER EXTENT THE AIR PASSAGES. |                                  |                        |
| [ Inflammation TGLs = 6-22,7-2 ]  |                                  |                        |
| * Nose  | Foreign Body                     |                        |
| * Spleen  | Hematopoietic Cell Proliferation | Marked                 |
| Note: PHAGOCYTOSIS OF VACUOLAR MATERIAL IN RED PULP OF SPLEEN.  |                                  |                        |
| [ Hematopoietic Cell Proliferation TGLs = 2-6 ]   |                                  |                        |
| * Thymus  | Atrophy                          | Moderate               |
|   | Inflammation                     | Chronic Active, Marked |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 325

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110369

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Clitoral Gland          | * Esophagus                 | * Eye                    |
| * Gallbladder              | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Lymph Node, Mandibular |
| * Mammary Gland            | * Nose                    | * Pancreas                  | * Parathyroid Gland      |
| * Salivary Glands          | * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                   | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

OBSERVATIONS

- |                          |                                  |                                  |                 |
|--------------------------|----------------------------------|----------------------------------|-----------------|
| * Liver                  |                                  | Mixed Cell Focus                 |                 |
|                          | [ Mixed Cell Focus TGLs = 2-22 ] |                                  |                 |
| * Lung                   | Alveolar Epith                   | Hyperplasia                      | Minimal         |
| * Lymph Node, Mesenteric |                                  | Hemorrhage                       | Marked          |
|                          | [ Hemorrhage TGLs = 1-21 ]       |                                  |                 |
| * Ovary                  |                                  | Cyst                             | Moderate        |
|                          |                                  | Hemorrhage                       | Minimal         |
|                          | [ Cyst TGLs = 3-7 ]              |                                  |                 |
| * Pituitary Gland        | Pars Distalis                    | Hyperplasia                      | Focal, Mild     |
| * Spleen                 |                                  | Hematopoietic Cell Proliferation | Minimal         |
| * Uterus                 | Endometrium                      | Hyperplasia                      | Cystic, Minimal |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 326

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Natural Death

DAY ON TEST: 719  
 HISTO: 110370

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Intestine Small, Jejunum		Lymphoma Malignant	
[ Lymphoma Malignant TGLs = 6-22 ]			
Lymph Node	Bronchial	Atrophy	Marked
	Mediastinal	Atrophy	Marked
	Bronchial	Pigmentation	Moderate
	Mediastinal	Pigmentation	Moderate
[ Atrophy TGLs = 11-23 ]			
[ Atrophy TGLs = 10-3 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLs = 5-5 ]			
* Ovary		Cyst	Moderate
Skeletal Muscle		Sarcoma	
[ Sarcoma TGLs = 3-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Lymphoma Malignant	
[ Hematopoietic Cell Proliferation TGLs = 4-6 ]			
[ Lymphoma Malignant TGLs = 4-6 ]			

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant  
 CONTRIBUTORY CAUSE OF DEATH - Skeletal Muscle Sarcoma

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 326

**TMT:** 4

**SEX:** Female

**DAY ON TEST:** 719

**DOSE:** 3 MG/KG

**DISP:** Natural Death

**HISTO:** 110370

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: APPARENT METASTASIS OF SKELETAL MUSCLE SARCOMA TO MESENTERY ON SLIDES 4 AND 7; NOT TABULATED.

Animal Note: TGL 7 = NCL (No Corresponding Lesion)

---

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 327

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110371

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                          |                            |                          |
|---------------------------|--------------------------|----------------------------|--------------------------|
| * Adrenal Cortex          | * Adrenal Medulla        | * Bone                     | * Brain                  |
| * Clitoral Gland          | * Esophagus              | * Eye                      | * Gallbladder            |
| * Harderian Gland         | * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     |
| * Lymph Node, Mandibular  | * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                   |
| * Ovary                   | * Pancreas               | * Parathyroid Gland        | * Salivary Glands        |
| * Skin                    | * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                 |
| * Thyroid Gland           | * Trachea                | * Urinary Bladder          |                          |

MISSING

- \* Intestine Small, Duodenum

OBSERVATIONS

- |                   |   |                                  |                |
|-------------------|---|----------------------------------|----------------|
| * Bone Marrow     |   | Hyperplasia                      | Moderate       |
| * Kidney          |   | Nephropathy                      | Minimal        |
| * Liver           |   | Hematopoietic Cell Proliferation | Moderate       |
|                   |   | Hepatocellular Adenoma           |                |
|                   |   | Necrosis                         | Focal, Minimal |
|                   | [ Hepatocellular Adenoma TGLs = 3-21 ]          |                                  |                |
| * Lung            |   | Alveolar/Bronchiolar Adenoma     |                |
|                   | [ Alveolar/Bronchiolar Adenoma TGLs = 4-22 ]    |                                  |                |
| * Pituitary Gland | Pars Distalis                                   | Hyperplasia                      | Focal, Mild    |
| * Spleen          |   | Hematopoietic Cell Proliferation | Marked         |
|                   | [ Hematopoietic Cell Proliferation TGLs = 2-6 ] |                                  |                |
| * Uterus          | Endometrium                                     | Hyperplasia                      | Cystic, Mild   |
|                   | [ Hyperplasia TGLs = 1-7 ]                      |                                  |                |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 328

TMT: 4

SEX: Female

DAY ON TEST: 733

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110372

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Nose		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Skin	Subcut Tiss	Fibrosarcoma	
	[ Fibrosarcoma TGLs = 2-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Lymphoma Malignant	
* Thyroid Gland	Follicle	Cyst	Moderate
* Urin Bladder			

Note: INFUSION ARTIFACT IN URINARY BLADDER.

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 329

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110373

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Kidney		Lymphoma Malignant	
* Liver		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLs = 1-21 ]			
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 330

TMT: 4

SEX: Female

DAY ON TEST: 733

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110374

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Mammary Gland
* Nose	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Liver	Lymphoma Malignant	
	Necrosis	Focal, Minimal
* Lung	Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mandibular	Lymphoma Malignant	
* Lymph Node, Mesenteric	Hyperplasia	Lymphoid, Mild
* Ovary	Cyst	Moderate
* Spleen	Lymphoma Malignant	

Animal Note: TGLs 1,2 = NCL (No Corresponding Lesion)



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 331

TMT: 4  
DOSE: 3 MG/KG

SEX: Female  
DISP: Dosing Accident

DAY ON TEST: 6  
HISTO: 110375

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Parathyroid Gland	* Thyroid Gland
---------------------	-----------------

AUTO PRECLUDES DIAG.

\* Gallbladder

OBSERVATIONS

* Bone Marrow	Hyperplasia	Marked
* Esophagus	Inflammation	Acute, Marked
	Ulcer	Marked
[ Ulcer TGLs = 4-23 ]		
* Lung	Foreign Body	
	Inflammation	Acute, Marked
Note: INFLAMMATION AND FOREIGN BODY INVOLVE THE PLEURA, MEDIASTINUM, AND AIR PASSAGES.		
* Thymus	Atrophy	Moderate
	Inflammation	Chronic Active, Marked
* Trachea		
Note: TRACHEA IS PRESENT ON SLIDE 2 WITH THE LUNG SECTION.		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 332

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110376

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Lung                   | * Mammary Gland            |
| * Nose                    | * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         | * Uterus                    |                          |                            |

OBSERVATIONS

- |   |              |                                  |                  |
|---|--------------|----------------------------------|------------------|
| * Bone Marrow   |              | Hyperplasia                      | Moderate         |
| * Liver   |              | Eosinophilic Focus               |                  |
|   | Kupffer Cell | Hyperplasia                      | Mild             |
| * Lymph Node, Mandibular                                    |              | Hyperplasia                      | Lymphoid, Mild   |
| * Lymph Node, Mesenteric                                    |              | Hyperplasia                      | Lymphoid, Mild   |
| Mesentery   |              |                                  |                  |
| Note: METASTATIC SKIN FIBROSARCOMA IN MESENTERY ON SLIDE 7. |              |                                  |                  |
| * Ovary   |              | Cyst                             | Moderate         |
| [ Cyst TGLs = 1-7 ]   |              |                                  |                  |
| * Salivary Glands   |              | Infiltration Cellular            | Lymphocyte, Mild |
| * Skin  | Subcut Tiss  | Fibrosarcoma                     |                  |
| [ Fibrosarcoma TGLs = 3-21 ]                                |              |                                  |                  |
| * Spleen  |              | Hematopoietic Cell Proliferation | Marked           |
| * Thymus  |              | Atrophy                          | Moderate         |
|   |              | Cyst                             | Moderate         |
| * Urin Bladder  |              |                                  |                  |
| Note: INFUSION ARTIFACT IN URINARY BLADDER.                 |              |                                  |                  |

Animal Note: TGL 2 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 333

TMT: 4  
DOSE: 3 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 524  
HISTO: 110377

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

AUTO PRECLUDES DIAG.

\* Intestine Small, Duodenum

INSUFFICIENT TISSUE

\* Gallbladder

OBSERVATIONS

* Bone Marrow	Hyperplasia	Moderate
* Kidney	Glomerulosclerosis	Moderate
	Nephropathy	Moderate
* Liver	Clear Cell Focus	
	Hepatocellular Adenoma	Multiple
	Hepatocellular Carcinoma	
	Mixed Cell Focus	
	Centrilobular Necrosis	Minimal
	[ Hepatocellular Adenoma TGLs = 1-21,5-6 ]	
	[ Hepatocellular Carcinoma TGLs = 3-23 ]	
	[ Mixed Cell Focus TGLs = 2-22,4-24 ]	
* Lung	Foreign Body Inflammation	Suppurative, Marked
	[ Foreign Body TGLs = 7-2 ]	
	[ Inflammation TGLs = 7-2 ]	
* Lymph Node, Mandibular	Pigmentation	Moderate

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 333

TMT: 4  
DOSE: 3 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 524  
HISTO: 110377

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric	Atrophy	Moderate
* Spleen	Hematopoietic Cell Proliferation	Moderate
* Thymus	Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma  
CONTRIBUTORY CAUSE OF DEATH - Lung Inflammation

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 334

TMT: 4  
DOSE: 3 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 733  
HISTO: 110378

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Kidney		Infarct	Mild
* Liver		Necrosis	Focal, Minimal
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

[ Hyperplasia TGLs = 1-7 ]

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 335

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110379

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Brain                   | * Esophagus                 |
| * Eye                    | * Gallbladder              | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           | * Pancreas                  |
| * Parathyroid Gland      | * Pituitary Gland          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

INSUFFICIENT TISSUE

- \* Clitoral Gland

OBSERVATIONS

- |                            |             |                                  |                      |
|----------------------------|-------------|----------------------------------|----------------------|
| * Adrenal Cortex           | Capsule     | Hyperplasia                      | Minimal              |
| * Bone Marrow              |             | Hyperplasia                      | Moderate             |
| * Kidney                   |             | Infarct                          | Moderate             |
|                            |             | Nephropathy                      | Mild                 |
| * Liver                    |             | Inflammation                     | Chronic Active, Mild |
|                            |             | Tension Lipidosis                |                      |
| * Nose                     |             | Inflammation                     | Chronic, Minimal     |
| * Ovary                    |             | Cyst                             | Moderate             |
|                            |             | Hemorrhage                       | Mild                 |
|                            |             |                                  |                      |
|                            |             | Infiltration Cellular            | Lymphocyte, Mild     |
| [ Cyst TGLs = 2-7 ]        |             | Hematopoietic Cell Proliferation | Moderate             |
| * Salivary Glands          |             |                                  |                      |
| * Spleen                   |             |                                  |                      |
| * Uterus                   | Endometrium | Hyperplasia                      | Cystic, Minimal      |
| [ Hyperplasia TGLs = 1-7 ] |             |                                  |                      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 336

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110380

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                   | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                   | * Pancreas                 |
| * Parathyroid Gland       | * Pituitary Gland           | * Skin                   | * Stomach, Forestomach     |
| * Stomach, Glandular      | * Thymus                    | * Trachea                | * Urinary Bladder          |
| * Uterus                  |                             |                          |                            |

OBSERVATIONS

- |                   |              |                       |                         |
|-------------------|--------------|-----------------------|-------------------------|
| * Adrenal Cortex  | Capsule      | Hyperplasia           | Mild                    |
| * Kidney          |              | Cyst                  | Moderate                |
|                   |              | Infiltration Cellular | Lymphocyte, Moderate    |
|                   |              | Nephropathy           | Minimal                 |
| * Ovary           |              | Cyst                  | Moderate                |
|                   |              | Inflammation          | Granulomatous, Moderate |
|                   |              | Mineralization        | Moderate                |
| * Salivary Glands |              | Infiltration Cellular | Lymphocyte, Mild        |
| * Spleen          | Lymph Follic | Hyperplasia           | Mild                    |
| * Thyroid Gland   | Follicle     | Degeneration          | Focal, Moderate         |

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 337

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110381

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Thymus

OBSERVATIONS

* Liver	Hepatocyte	Hepatocellular Adenoma Vacuolization Cytoplasmic	Marked
[ Hepatocellular Adenoma	TGLs = 3-22 ]		
Mesentery	Fat	Necrosis	Marked
[ Necrosis	TGLs = 1-21 ]		
* Ovary		Hemorrhage	Moderate
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild



TDMS No. 99037 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010

Time Report Requested: 13:38:29

First Dose M/F: 06/30/03 / 06/30/03

Lab: SRI

ANIMAL NUM: 338

TMT: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110382

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Brain                   |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  |
| * Mammary Gland             | * Nose                   | * Pancreas                 | * Parathyroid Gland       |
| * Pituitary Gland           | * Salivary Glands        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Trachea                  | * Urinary Bladder         |

OBSERVATIONS

- |                   |                                     |                                  |                |
|-------------------|-------------------------------------|----------------------------------|----------------|
| * Bone Marrow     |                                     | Hyperplasia                      | Moderate       |
| * Harderian Gland |                                     | Adenoma                          |                |
|                   | [ Adenoma TGLs = 3-12 ]             |                                  |                |
| * Kidney          |                                     | Nephropathy                      | Minimal        |
| * Ovary           |                                     | Cyst                             | Moderate       |
| * Spleen          |                                     | Hematopoietic Cell Proliferation | Mild           |
|                   | Lymph Follicle                      | Hyperplasia                      | Moderate       |
| * Thyroid Gland   | Follicle                            | Degeneration                     | Focal, Minimal |
| * Uterus          |                                     | Histiocytic Sarcoma              |                |
|                   | Endometrium                         | Hyperplasia                      | Cystic, Mild   |
|                   |                                     | Inflammation                     | Acute, Mild    |
|                   | [ Histiocytic Sarcoma TGLs = 4-21 ] |                                  |                |
|                   | [ Hyperplasia TGLs = 1-7,2-7 ]      |                                  |                |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 339

TMT: 4  
DOSE: 3 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 732  
HISTO: 110383

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Clitoral Gland

OBSERVATIONS

* Ovary		Cyst	Moderate
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
[ Hyperplasia TGLs = 1-7 ]			

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 340

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110384

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Liver                     | * Lung                   | * Lymph Node, Mesenteric   |
| * Nose                    | * Ovary                     | * Pancreas               | * Parathyroid Gland        |
| * Pituitary Gland         | * Skin                      | * Stomach, Forestomach   | * Thymus                   |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |                            |

OBSERVATIONS

- |   |              |                                  |                  |
|---|--------------|----------------------------------|------------------|
| * Bone Marrow                                   |              | Hyperplasia                      | Mild             |
| * Kidney  |              | Cyst                             | Moderate         |
|   |              | Infarct                          | Mild             |
|   |              | Infiltration Cellular            | Lymphocyte, Mild |
| * Lymph Node, Mandibular                        |              | Hyperplasia                      | Lymphoid, Mild   |
| * Mammary Gland                                 |              | Carcinoma                        |                  |
| [ Carcinoma TGLs = 1-21 ]                       |              |                                  |                  |
| * Salivary Glands                               |              | Infiltration Cellular            | Lymphocyte, Mild |
| * Spleen  |              | Hematopoietic Cell Proliferation | Mild             |
|   | Lymph Follic | Hyperplasia                      | Moderate         |
| [ Hematopoietic Cell Proliferation TGLs = 2-6 ] |              |                                  |                  |
| [ Hyperplasia TGLs = 2-6 ]                      |              |                                  |                  |
| * Stomach, Glandular                            |              | Cyst                             | Moderate         |
| * Uterus  | Endometrium  | Hyperplasia                      | Cystic, Moderate |

Animal Note: THE ADRENAL GLANDS ARE ON SLIDE 7 AND THE OVARIES ARE ON SLIDE 10.

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 341

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Natural Death

DAY ON TEST: 677  
 HISTO: 110385

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                          |                           |
|--------------------------|----------------------------|--------------------------|---------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Bone                   | * Brain                   |
| * Clitoral Gland         | * Esophagus                | * Eye                    | * Harderian Gland         |
| * Heart                  | * Intestine Large, Cecum   | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic     | * Kidney                  |
| * Liver                  | * Lymph Node, Mandibular   | * Mammary Gland          | * Nose                    |
| * Pancreas               | * Parathyroid Gland        | * Pituitary Gland        | * Salivary Glands         |
| * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular     | * Thymus                  |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder        | * Uterus                  |

AUTO PRECLUDES DIAG.

- \* Gallbladder

OBSERVATIONS

- |   |                                  |                                  |                   |
|---|----------------------------------|----------------------------------|-------------------|
| * Bone Marrow                                     |                                  | Hyperplasia                      | Mild              |
| * Intestine Small, Duodenum                       |                                  | Leiomyosarcoma                   |                   |
| * Lung  |                                  | Alveolar/Bronchiolar Adenoma     |                   |
|   |                                  | Alveolar/Bronchiolar Carcinoma   |                   |
| Note: TGL 4 INVOLVES MEDIASTINAL PORTION OF LUNG. |                                  |                                  |                   |
|   | [ Alveolar/Bronchiolar Carcinoma | TGLs = 4-2,5-2 ]                 |                   |
| Lymph Node  | Bronchial                        | Alveolar/Bronchiolar Carcinoma   | Metastatic (Lung) |
| * Lymph Node, Mesenteric                          |                                  | Hemorrhage                       | Mild              |
| * Ovary   |                                  | Cyst                             | Moderate          |
|   | Granulosa Cell                   | Hyperplasia                      | Moderate          |
| * Spleen  |                                  | Hematopoietic Cell Proliferation | Mild              |
|   | Lymph Follic                     | Hyperplasia                      | Mild              |
| * Urin Bladder                                    |                                  |                                  |                   |

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma  
 CONTRIBUTORY CAUSE OF DEATH - Intestine Small, Duodenum Leiomyosarcoma

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 342

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110386

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Infiltration Cellular Nephropathy	Lymphocyte, Moderate Minimal
* Lung	[ Alveolar/Bronchiolar Adenoma TGLs = 3-22 ]	Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mesentery	Fat	Necrosis	Marked
	[ Necrosis TGLs = 1-21 ]		
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	[ Hyperplasia TGLs = 2-7 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 343

TMT: 4

SEX: Female

DAY ON TEST: 566

DOSE: 3 MG/KG

DISP: Natural Death

HISTO: 110387

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Thymus

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Liver		Mixed Cell Focus	
* Mammary Gland		Hyperplasia	Mild
* Skin	Subcut Tiss	Fibrosarcoma	
Note: THE FIBROSARCOMA IS ON SLIDE 8 ADJACENT TO CLITORAL GLAND. THE TUMOR CONTAINS PLEOMORPHIC CELLS INCLUDING MULTINUCLEAR GIANT CELLS.			
Note: THE FIBROSARCOMA IS METASTATIC TO THE INGUINAL LYMPH NODE (SLIDE 8).			
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 344

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Moribund Sacrifice

DAY ON TEST: 669  
 HISTO: 110388

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Eye	Cornea	Hyperplasia Inflammation	Mild Chronic, Minimal
* Harderian Gland		Carcinoma	
	[ Carcinoma TGLs = 5-12 ]		
* Kidney		Infiltration Cellular Metaplasia	Lymphocyte, Mild Osseous, Mild
* Liver		Basophilic Focus Hematopoietic Cell Proliferation	Moderate
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Ovary		Hemorrhage	Mild
* Skin	Subcut Tiss	Fibrosarcoma	
	[ Fibrosarcoma TGLs = 3-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLs = 2-6 ]		
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH - Harderian Gland Carcinoma

Animal Note: TGL 4 = NCL (No Corresponding Lesion)

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 345

TMT: 4  
DOSE: 3 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 585  
HISTO: 110389

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Pituitary Gland	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands
--------------------------	---------------------	-------------------

AUTO PRECLUDES DIAG.

\* Intestine Small, Duodenum

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Intestine Small, Jejunum		Leiomyosarcoma	
[ Leiomyosarcoma TGLs = 3-5 ]			
* Kidney		Nephropathy	Minimal
* Liver		Necrosis	Focal, Mild
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	
* Skin		Leiomyosarcoma	Metastatic (Intestine Small, Jejunum)
[ Leiomyosarcoma TGLs = 4-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLs = 5-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLs = 1-7 ]			

PRIMARY CAUSE OF DEATH - Intestine Small, Jejunum Leiomyosarcoma

Animal Note: LEIOMYOSARCOMA IS METASTATIC TO MESENTERY ON SLIDES 4 AND 7.

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010

Time Report Requested: 13:38:29

First Dose M/F: 06/30/03 / 06/30/03

Lab: SRI

ANIMAL NUM: 346

TMT: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3 MG/KG

DISP: Terminal Sacrifice

HISTO: 110390

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Clitoral Gland          | * Esophagus                 | * Eye                    |
| * Gallbladder              | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     | * Lung                   |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                   |
| * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        |
| * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 |
| * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |                          |

OBSERVATIONS

- |                                 |              |                                  |                  |
|---------------------------------|--------------|----------------------------------|------------------|
| * Kidney                        |              | Infiltration Cellular            | Lymphocyte, Mild |
| * Ovary                         |              | Cyst                             | Moderate         |
| [ Cyst TGLs = 1-7 ]             |              |                                  |                  |
| * Spleen                        |              | Hematopoietic Cell Proliferation | Mild             |
|                                 | Lymph Follic | Hyperplasia                      | Mild             |
| * Uterus                        | Endometrium  | Hyperplasia                      | Cystic, Marked   |
|                                 |              | Thrombosis                       | Marked           |
| [ Hyperplasia TGLs = 2-7,2-21 ] |              |                                  |                  |
| [ Thrombosis TGLs = 3-21 ]      |              |                                  |                  |

Animal Note: TGLs 4,5 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 347

TMT: 4  
DOSE: 3 MG/KG

SEX: Female  
DISP: Dosing Accident

DAY ON TEST: 5  
HISTO: 110391

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Thymus

AUTO PRECLUDES DIAG.

\* Gallbladder

OBSERVATIONS

* Bone Marrow	Hyperplasia	Marked
* Esophagus	Inflammation	Acute, Marked
[ Inflammation TGLs = 3-21 ]		
* Heart	Inflammation	Acute, Mild
	Mineralization	Minimal
Note: INFLAMMATION INVOLVES THE EPICARDIUM.		
* Lung	Foreign Body	
	Inflammation	Chronic Active, Marked
Note: INFLAMMATION AND FOREIGN BODY ARE IN THE PLEURA AND MEDIASTINUM.		
* Lymph Node, Mesenteric	Atrophy	Moderate
* Spleen	Hematopoietic Cell Proliferation	Moderate
Note: APPARENT PHAGOCYTOSIS OF CLEAR, VACUOLATED MATERIAL BY MACROPHAGES IN SPLENIC RED PULP.		
[ Hematopoietic Cell Proliferation TGLs = 1-6 ]		
* Urin Bladder		
Note: INFUSION ARTIFACT IN URINARY BLADDER.		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 348

TMT: 4  
 DOSE: 3 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110392

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Bone                   | * Brain                    | * Clitoral Gland          |
| * Esophagus                 | * Eye                    | * Gallbladder              | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  |
| * Nose                      | * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         |
| * Salivary Glands           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thyroid Gland             | * Trachea                | * Urinary Bladder          |                           |

MISSING

- \* Adrenal Medulla

OBSERVATIONS

- |                 |   |                                  |                |
|-----------------|---|----------------------------------|----------------|
| * Bone Marrow   |   | Hyperplasia                      | Moderate       |
| * Liver         |   | Hepatocellular Adenoma           |                |
|                 | [ Hepatocellular Adenoma TGLs = 4-21 ]          |                                  |                |
| * Mammary Gland |   | Hyperplasia                      | Minimal        |
| * Ovary         |   | Granulosa Cell Tumor Benign      |                |
|                 | [ Granulosa Cell Tumor Benign TGLs = 3-22 ]     |                                  |                |
| * Spleen        |   | Hematopoietic Cell Proliferation | Marked         |
|                 | [ Hematopoietic Cell Proliferation TGLs = 1-6 ] |                                  |                |
| * Thymus        |   | Atrophy                          | Mild           |
| * Uterus        | Endometrium                                     | Hyperplasia                      | Cystic, Marked |
|                 | [ Hyperplasia TGLs = 2-7 ]                      |                                  |                |

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 349

TMT: 4  
DOSE: 3 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 732  
HISTO: 110393

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
	Hyperplasia	Focal, Mild
* Kidney	Infiltration Cellular	Lymphocyte, Mild
* Pancreas	Basophilic Focus	
* Stomach, Forestomach	Diverticulum	

Animal Note: TGL 2 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 350

TMT: 4  
DOSE: 3 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 732  
HISTO: 110394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* 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	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Gallbladder

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
* Ovary		Cyst	Moderate
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Polyp Stromal	

[ Polyp Stromal TGLs = 1-7 ]

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 351

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110395

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

MISSING

\* Thymus

OBSERVATIONS

* Liver		Clear Cell Focus Hepatocellular Adenoma Lymphoma Malignant	
	[ Hepatocellular Adenoma TGLs = 3-21 ]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Ovary		Cyst Luteoma	Moderate
	[ Cyst TGLs = 1-7 ]		
	[ Luteoma TGLs = 2-7 ]		
* Pancreas		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
* Stomach, Glandular		Cyst	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 352

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110396

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Kidney		Infarct	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Marked
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
	Lymph Follic	Hyperplasia	Mild
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

[ Hyperplasia TGLs = 1-7 ]

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 353

TMT: 6

SEX: Female

DAY ON TEST: 732

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110397

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Uterus		Polyp Stromal	
[ Polyp Stromal	TGLs = 1,2-7 ]		



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 354

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110398

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Liver                     | * Lung                   | * Lymph Node, Mandibular   | * Mammary Gland           |
| * Nose                      | * Ovary                  | * Pancreas                 | * Parathyroid Gland       |
| * Pituitary Gland           | * Salivary Glands        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

OBSERVATIONS

- |                                   |             |  |                             |
|-----------------------------------|-------------|--|-----------------------------|
| * Eye                             |             | Cataract<br>Inflammation<br>Adenoma                        | Moderate<br>Chronic, Mild   |
| * Harderian Gland                 |             |  |                             |
| [ Adenoma TGLs = 4-12 ]           |             |  |                             |
| * Kidney                          |             | Infiltration Cellular<br>Nephropathy<br>Lymphoma Malignant | Lymphocyte, Mild<br>Minimal |
| * Lymph Node, Mesenteric          |             |  |                             |
| [ Lymphoma Malignant TGLs = 3-5 ] |             |  |                             |
| * Spleen                          |             | Hematopoietic Cell Proliferation                           | Mild                        |
| * Uterus                          | Endometrium | Hyperplasia  | Cystic, Moderate            |
| [ Hyperplasia TGLs = 1-7,2-7 ]    |             |  |                             |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 355

TMT: 6

SEX: Female

DAY ON TEST: 483

DOSE: 6 MG/KG

DISP: Natural Death

HISTO: 110399

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Clitoral Gland

AUTO PRECLUDES DIAG.

\* Intestine Small, Ileum                      \* Intestine Small, Jejunum                      \* Stomach, Glandular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Lung		Inflammation	Acute, Moderate
* Parathyroid Gland		Cyst	Moderate
* Skin	Subcut Tiss	Sarcoma	
	[ Sarcoma TGLs = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLs = 3-6 ]		

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Sarcoma

Animal Note: TGL 2 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 356

TMT: 6

SEX: Female

DAY ON TEST: 733

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110400

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Harderian Gland		Cyst	Moderate
		Infiltration Cellular	Lymphocyte, Moderate
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lung		Hemorrhage	Mild
	[ Hemorrhage TGLs = 1-21 ]		
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 357

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110401

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Brain                   |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  |
| * Mammary Gland             | * Nose                   | * Parathyroid Gland        | * Pituitary Gland         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

MISSING

- \* Thymus

OBSERVATIONS

- |                   |                             |                                  |                  |
|-------------------|-----------------------------|----------------------------------|------------------|
| * Bone Marrow     |                             | Hyperplasia                      | Mild             |
| * Harderian Gland |                             | Adenoma                          |                  |
|                   | [ Adenoma TGLs = 4-12 ]     |                                  |                  |
| * Liver           |                             | Hematopoietic Cell Proliferation | Minimal          |
|                   | [ Necrosis TGLs = 3-6 ]     | Necrosis                         | Focal, Mild      |
| * Ovary           |                             | Cystadenoma                      |                  |
|                   | [ Cystadenoma TGLs = 2-21 ] |                                  |                  |
| * Pancreas        |                             | Mesothelioma Malignant           |                  |
| * Salivary Glands |                             | Infiltration Cellular            | Lymphocyte, Mild |
| * Spleen          |                             | Hematopoietic Cell Proliferation | Marked           |
| * Uterus          | Endometrium                 | Hyperplasia                      | Cystic, Mild     |



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 359

TMT: 6

SEX: Female

DAY ON TEST: 733

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Nose		Inflammation	Chronic, Minimal
* Ovary		Cyst	Moderate
[ Cyst TGLs = 3-7 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLs = 1-7 ]			

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 360

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Clitoral Gland          | * Esophagus                 | * Eye                    |
| * Gallbladder              | * 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, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                   |
| * Pancreas                 | * Parathyroid Gland       | * Salivary Glands           | * Skin                   |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

OBSERVATIONS

- |                   |  |                                  |                 |
|-------------------|--|----------------------------------|-----------------|
| * Lung            | [ Alveolar/Bronchiolar Adenoma TGLs = 2-21 ] | Alveolar/Bronchiolar Adenoma     |                 |
| * Ovary           |  | Cyst                             | Moderate        |
| * Pituitary Gland | Pars Distalis                                | Hyperplasia                      | Focal, Minimal  |
| * Spleen          |  | Hematopoietic Cell Proliferation | Moderate        |
| * Thyroid Gland   | Follicle                                     | Degeneration                     | Focal, Moderate |
| * Uterus          | Endometrium                                  | Hyperplasia                      | Cystic, Mild    |
|                   | [ Hyperplasia TGLs = 1-7 ]                   |                                  |                 |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 361

TMT: 6

SEX: Female

DAY ON TEST: 732

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110405

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 2-21 ]		
* Ovary		Cystadenoma	
		Hemorrhage	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[ Hyperplasia TGLs = 1-7 ]		



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 362

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Natural Death

DAY ON TEST: 646  
 HISTO: 110406

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
	Lymphoma Malignant	
* Bone Marrow	Lymphoma Malignant	
* Harderian Gland	Lymphoma Malignant	
* Kidney	Lymphoma Malignant	
* Liver	Lymphoma Malignant	
[ Lymphoma Malignant TGLs = 4-6 ]		
* Lung	Infiltration Cellular	Histiocyte, Mild
	Lymphoma Malignant	
[ Lymphoma Malignant TGLs = 5-2 ]		
* Lymph Node, Mandibular	Lymphoma Malignant	
* Lymph Node, Mesenteric	Lymphoma Malignant	
* Ovary	Cyst	Moderate
[ Cyst TGLs = 3-7 ]		
* Spleen	Lymphoma Malignant	
[ Lymphoma Malignant TGLs = 2-6 ]		
* Thymus	Atrophy	Moderate
* Urin Bladder		

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

Animal Note: THE MALIGNANT LYMPHOMA IS OF AN UNDIFFERENTIATED TYPE AND IN SOME AREAS HAS FEATURES OF PLASMA CELL TUMOR.

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 363

TMT: 6

SEX: Female

DAY ON TEST: 732

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110407

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
[ Hyperplasia	TGLs = 1-7 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 364

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110408

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Brain                    | * Clitoral Gland          |
| * Esophagus                 | * Eye                    | * Gallbladder              | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  |
| * Mammary Gland             | * Nose                   | * Pancreas                 | * Parathyroid Gland       |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular       | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

INSUFFICIENT TISSUE

- \* Pituitary Gland

OBSERVATIONS

- |                   |   |                                   |                      |
|-------------------|---|-----------------------------------|----------------------|
| * Adrenal Cortex  |   | Accessory Adrenal Cortical Nodule | Moderate             |
| * Bone Marrow     |   | Hyperplasia                       | Moderate             |
| * Liver           |   | Hepatocellular Adenoma            |                      |
|                   |   | Tension Lipidosis                 |                      |
|                   | [ Hepatocellular Adenoma TGLs = 4-6 ]           |                                   |                      |
|                   | Mesentery                                       | Hemangiosarcoma                   |                      |
|                   | [ Hemangiosarcoma TGLs = 3-21 ]                 |                                   |                      |
| * Ovary           |   | Hemorrhage                        | Moderate             |
| * Salivary Glands |   | Infiltration Cellular             | Lymphocyte, Moderate |
| * Spleen          |   | Hematopoietic Cell Proliferation  | Moderate             |
|                   | [ Hematopoietic Cell Proliferation TGLs = 2-6 ] |                                   |                      |
| * Thymus          |   | Hyperplasia                       | Lymphoid, Mild       |
| * Thyroid Gland   | Follicular Cel<br>Follicle                      | Adenoma<br>Degeneration           | Focal, Mild          |
|                   | [ Adenoma TGLs = 5-3 ]                          |                                   |                      |
| * Uterus          | Endometrium                                     | Hyperplasia                       | Cystic, Minimal      |
|                   | [ Hyperplasia TGLs = 1-7 ]                      |                                   |                      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 365

TMT: 6

SEX: Female

DAY ON TEST: 732

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Harderian Gland [ Adenoma TGLs = 2-12 ]		Adenoma	
* Kidney		Nephropathy	Minimal
* Ovary		Hemorrhage	Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus [ Hyperplasia TGLs = 1-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 366

TMT: 6

SEX: Female

DAY ON TEST: 731

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110410

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Ovary		Cyst	Moderate
[ Cyst TGLs = 2-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLs = 1-7 ]			

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 367

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Moribund Sacrifice

DAY ON TEST: 691  
 HISTO: 110411

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Adenoma	
[ Adenoma TGLs = 8-12 ]			
* Liver		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Moderate
[ Hepatocellular Adenoma TGLs = 2-21 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLs = 7-2 ]			
* Mammary Gland		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLs = 5-22 ]			
* Ovary		Cyst	Moderate
		Hemorrhage	Moderate
[ Cyst TGLs = 3-7 ]			
* Pancreas	Acinus	Cytoplasmic Alteration	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
[ Hyperplasia TGLs = 4-7 ]			

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 368

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110412

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Bone Marrow              |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder             | * 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       | * Pituitary Gland           | * Salivary Glands        | * Skin                     |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                 | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

MISSING

- \* Lymph Node, Mandibular

OBSERVATIONS

- |   |              |              |                |
|---|--------------|--------------|----------------|
| * Harderian Gland                           |              | Hyperplasia  | Focal, Minimal |
| * Ovary                                     |              | Cyst         | Moderate       |
| [ Cyst TGLs = 2-7 ]                         |              |              |                |
| * Spleen                                    | Lymph Follic | Hyperplasia  | Moderate       |
| * Thyroid Gland                             | Follicle     | Degeneration | Focal, Minimal |
| * Urin Bladder                              |              |              |                |
| Note: INFUSION ARTIFACT IN URINARY BLADDER. |              |              |                |
| * Uterus                                    | Endometrium  | Hyperplasia  | Cystic, Marked |
| [ Hyperplasia TGLs = 1-7 ]                  |              |              |                |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 369

TMT: 6

SEX: Female

DAY ON TEST: 731

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Thymus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLs = 4-2 ]		
* Ovary		Cyst	Moderate
* Spleen	Lymph Follic	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	[ Hyperplasia TGLs = 1-7,2-7 ]		

Animal Note: TGL 3 = NCL (No Corresponding Lesion)



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 370

TMT: 6  
DOSE: 6 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 731  
HISTO: 110414

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

\* Intestine Small, Ileum

OBSERVATIONS

* Liver	Hepatocellular Carcinoma		
[ Hepatocellular Carcinoma TGLs = 1-21 ]			
* Lung	Infiltration Cellular	Lymphocyte, Mild	
* Spleen	Hematopoietic Cell Proliferation	Mild	
	Lymph Follic	Hyperplasia	Mild

Animal Note: TGL 2 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 371

TMT: 6

SEX: Female

DAY ON TEST: 733

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110415

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone		Fracture	
[ Fracture TGLs = 2-21 ]			
* Esophagus			
Note: ESOPHAGUS IS ON SLIDE 4.			
* Lymph Node, Mandibular		Pigmentation	Moderate
* Pancreas		Atrophy	Marked
		Cyst	Moderate
[ Cyst TGLs = 3-7 ]			
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen	Lymph Follic	Hyperplasia	Mild
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 372

TMT: 6

SEX: Female

DAY ON TEST: 733

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110416

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

INSUFFICIENT TISSUE

\* Lymph Node, Mesenteric

OBSERVATIONS

* Lymph Node, Mandibular	Pigmentation	Moderate
* Spleen	Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular	Cyst	Moderate
* Uterus	Angiectasis	Mild
	Thrombosis	Marked

[ Angiectasis TGLs = 4-7 ]  
[ Thrombosis TGLs = 4-7 ]

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 373

TMT: 6

SEX: Female

DAY ON TEST: 733

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110417

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

Mesentery [ Necrosis TGLs = 1-21 ]	Fat	Necrosis	Marked
* Ovary		Luteoma	
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal

Animal Note: TGL 2 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 374

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Bone                     | * Bone Marrow             | * Brain                     |
| * Clitoral Gland         | * Esophagus                | * Gallbladder             | * Harderian Gland           |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    |
| * Lung                   | * Lymph Node, Mandibular   | * Mammary Gland           | * Nose                      |
| * Ovary                  | * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           |
| * Salivary Glands        | * Skin                     | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Thymus                 | * Trachea                  | * Urinary Bladder         |                             |

OBSERVATIONS

- |  |          |                                  |                         |
|--|----------|----------------------------------|-------------------------|
| * Adrenal Medulla  |          | Pheochromocytoma Benign          |                         |
| * Eye  | Cornea   | Hyperplasia                      | Minimal                 |
| * Heart  |          | Mineralization                   | Mild                    |
| Note: MINERALIZATION IS IN THE AORTA AT THE BASE OF THE HEART. |          |                                  |                         |
| * Liver  |          | Inflammation                     | Chronic Active, Minimal |
|  |          | Lymphoma Malignant               |                         |
| * Lymph Node, Mesenteric                                       |          | Hematopoietic Cell Proliferation | Mild                    |
|  |          | Hyperplasia                      | Lymphoid, Moderate      |
| * Spleen   |          | Hematopoietic Cell Proliferation | Mild                    |
|  |          | Lymphoma Malignant               |                         |
| * Thyroid Gland  | Follicle | Degeneration                     | Focal, Minimal          |
| * Uterus   |          | Lymphoma Malignant               |                         |

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 375

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110419

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Infarct	Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Pigmentation	Moderate
* Ovary		Cyst	Moderate
		Hemorrhage	Mild
		Pigmentation	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
[ Hyperplasia TGLs = 1-7 ]			

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 376

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Moribund Sacrifice

DAY ON TEST: 698  
 HISTO: 110420

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Gallbladder	* 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, Mandibular	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

\* Adrenal Medulla

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Eye		Carcinoma	Metastatic (Harderian Gland)
	[ Carcinoma TGLs = 10-23 ]		
* Harderian Gland		Carcinoma	
	[ Carcinoma TGLs = 9-21 ]		
* Lung		Carcinoma	Metastatic (Harderian Gland)
	[ Carcinoma TGLs = 4-2,5-2,6-2,7-2,8-2 ]		
* Lymph Node, Mesenteric		Atrophy	Mild
* Mammary Gland		Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Urin Bladder			
	Note: INFUSION ARTIFACT IN URINARY BLADDER.		
* Uterus		Angiectasis	Marked
	[ Angiectasis TGLs = 3-22 ]		

PRIMARY CAUSE OF DEATH - Harderian Gland Carcinoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 377

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* 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
* Pituitary Gland	* Skin	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Bone Marrow		Hyperplasia	Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Ovary		Cyst	Moderate
		Hemorrhage	Mild
	[ Cyst TGLs = 2-7 ]		
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Moderate
	[ Hematopoietic Cell Proliferation TGLs = 1-6 ]		
	[ Hyperplasia TGLs = 1-6 ]		
* Stomach, Forestomach		Diverticulum	
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	[ Hyperplasia TGLs = 3-7 ]		

\* PROTOCOL REQUIRED TISSUE



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 378

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Natural Death

DAY ON TEST: 652  
 HISTO: 110422

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Uterus

MISSING

* Lymph Node, Mandibular	* Salivary Glands
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Spleen

OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant
* Bone Marrow		Lymphoma Malignant
* Kidney		Lymphoma Malignant
* Liver		Lymphoma Malignant
[ Lymphoma Malignant	TGLs = 7-6 ]	
* Lung		Lymphoma Malignant
[ Lymphoma Malignant	TGLs = 9-2 ]	
Lymph Node	Mediastinal	Lymphoma Malignant
	Renal	Lymphoma Malignant
	Iliac	Lymphoma Malignant
[ Lymphoma Malignant	TGLs = 10-3 ]	
[ Lymphoma Malignant	TGLs = 2-21 ]	
[ Lymphoma Malignant	TGLs = 5-22 ]	
* Lymph Node, Mesenteric		Lymphoma Malignant
[ Lymphoma Malignant	TGLs = 3-5 ]	
* Nose		
Note: NOSE SECTIONS PRESENT ON SLIDE 9.		
* Stomach, Glandular		Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 378

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 652

**DOSE:** 6 MG/KG

**DISP:** Natural Death

**HISTO:** 110422

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Lymphoma Malignant TGLs = 6-4 ]

\* Thymus

Lymphoma Malignant

\* Urinary Bladder

Lymphoma Malignant

[ Lymphoma Malignant TGLs = 4-8 ]

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**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Lymphoma Malignant

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TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 379

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 4-6 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Ovary		Angiectasis	Marked
	[ Angiectasis TGLs = 2-7 ]	Thrombosis	Marked
	[ Thrombosis TGLs = 2-7 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
	[ Hematopoietic Cell Proliferation TGLs = 3-6 ]	Hyperplasia	Moderate
	[ Hyperplasia TGLs = 3-6 ]		
* Uterus		Hyperplasia	Cystic, Minimal
	[ Hyperplasia TGLs = 1-7 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 380

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110424

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Ovary                  | * Salivary Glands          |
| * Skin                    | * Stomach, Glandular        | * Thymus                 | * Trachea                  |
| * Urinary Bladder         | * Uterus                    |                          |                            |

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- |                        |   |                                  |                 |
|------------------------|---|----------------------------------|-----------------|
| * Bone Marrow          |   | Hyperplasia                      | Moderate        |
| * Kidney               |   | Nephropathy                      | Minimal         |
| * Liver                |   | Hepatocellular Carcinoma         |                 |
|                        | [ Hepatocellular Carcinoma TGLs = 5-21 ]        |                                  |                 |
| * Pancreas             |   | Atrophy                          | Marked          |
|                        | [ Cyst TGLs = 3-22 ]                            | Cyst                             | Moderate        |
| * Pituitary Gland      | Pars Distalis                                   | Hyperplasia                      | Focal, Mild     |
| * Spleen               |   | Hematopoietic Cell Proliferation | Moderate        |
|                        | [ Hematopoietic Cell Proliferation TGLs = 2-6 ] |                                  |                 |
| * Stomach, Forestomach |   | Hemangioma                       |                 |
| * Thyroid Gland        | Follicle  | Degeneration                     | Focal, Moderate |

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 381

TMT: 6  
DOSE: 6 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 732  
HISTO: 110425

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone		Fibrosis	Mild
* Liver		Hepatocellular Adenoma	
		Necrosis	Focal, Minimal
	[ Hepatocellular Adenoma TGLs = 1-6 ]		
* Ovary		Hemorrhage	Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLs = 2-7 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 382

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110426

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Harderian Gland		Carcinoma	
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Infarct	Mild
* Liver		Angiectasis	Minimal
Lymph Node	Renal	Lymphoma Malignant	
[ Lymphoma Malignant TGLs = 3-21 ]			
* Spleen	Lymph Follic	Hematopoietic Cell Proliferation	Mild
[ Hematopoietic Cell Proliferation TGLs = 2-6 ]		Hyperplasia	Moderate
[ Hyperplasia TGLs = 2-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLs = 1-7 ]			

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010

Time Report Requested: 13:38:29

First Dose M/F: 06/30/03 / 06/30/03

Lab: SRI

ANIMAL NUM: 383

TMT: 6

SEX: Female

DAY ON TEST: 638

DOSE: 6 MG/KG

DISP: Natural Death

HISTO: 110427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Bone
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Heart
- \* Intestine Large, Cecum
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Ileum
- \* Intestine Small, Jejunum
- \* Islets, Pancreatic
- \* Lung
- \* Lymph Node, Mandibular
- \* Mammary Gland
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Skin
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Trachea
- \* Urinary Bladder

AUTO PRECLUDES DIAG.

- \* Gallbladder
- \* Intestine Small, Duodenum

OBSERVATIONS

- \* Bone Marrow Hyperplasia Moderate
- \* Harderian Gland Adenoma
- [ Adenoma TGLs = 8-12 ]
- \* Kidney Lymphoma Malignant
- Renal Tubule Pigmentation Moderate
- \* Liver Necrosis Moderate
- Centrilobular
- Mediastinal Lymphoma Malignant
- [ Lymphoma Malignant TGLs = 7-3 ]
- \* Lymph Node, Mesenteric Lymphoma Malignant
- \* Ovary Angiectasis Marked
- [ Angiectasis TGLs = 5-21 ]
- \* Salivary Glands Lymphoma Malignant
- \* Spleen Hematopoietic Cell Proliferation Marked
- Lymphoma Malignant
- [ Hematopoietic Cell Proliferation TGLs = 6-6 ]
- [ Lymphoma Malignant TGLs = 6-6 ]
- \* Thymus Lymphoma Malignant
- \* Thyroid Gland Degeneration Focal, Minimal
- Follicle
- \* Uterus Hyperplasia Cystic, Minimal
- Endometrium
- [ Hyperplasia TGLs = 3-7,4-7 ]

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 383

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 638

**DOSE:** 6 MG/KG

**DISP:** Natural Death

**HISTO:** 110427

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH - Lymph Node, Mesenteric Lymphoma Malignant

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TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 384

TMT: 6  
DOSE: 6 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 624  
HISTO: 110428

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Eye	* Harderian Gland
* Heart	* Lung	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Skin	* Trachea
* Uterus			

MISSING

* Clitoral Gland	* Pituitary Gland
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AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Urinary Bladder		

INSUFFICIENT TISSUE

\* Esophagus

OBSERVATIONS

\* Thymus Lymphoma Malignant

[ Lymphoma Malignant TGLs = 1-3 ]

PRIMARY CAUSE OF DEATH - Thymus Lymphoma Malignant

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 385

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110429

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone Marrow            | * Brain                    |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lung                      | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   |
| * Mammary Gland           | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

OBSERVATIONS

- |                   |   |                                  |                  |
|-------------------|---|----------------------------------|------------------|
| * Bone            |   | Fracture                         |                  |
|                   | [ Fracture TGLs = 1-21 ]                    |                                  |                  |
| * Kidney          |   | Nephropathy                      | Minimal          |
| * Liver           |   | Hepatocellular Adenoma           | Multiple         |
|                   | [ Hepatocellular Adenoma TGLs = 3-22,4-23 ] |                                  |                  |
| * Ovary           |   | Hemorrhage                       | Mild             |
| * Pituitary Gland | Pars Intermed                               | Adenoma                          |                  |
| * Salivary Glands |   | Infiltration Cellular            | Lymphocyte, Mild |
| * Spleen          |   | Hematopoietic Cell Proliferation | Moderate         |
| * Thymus          |   | Lymphoma Malignant               |                  |
|                   | [ Lymphoma Malignant TGLs = 5-3 ]           |                                  |                  |
| * Thyroid Gland   | Follicle                                    | Degeneration                     | Focal, Mild      |
| * Uterus          | Endometrium                                 | Hyperplasia                      | Cystic, Moderate |
|                   | [ Hyperplasia TGLs = 2-7 ]                  |                                  |                  |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 386

TMT: 6

SEX: Female

DAY ON TEST: 733

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110430

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

\* Gallbladder

INSUFFICIENT TISSUE

\* Lymph Node, Mandibular

OBSERVATIONS

* Liver		Hepatocellular Adenoma	
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLs = 2-21 ]			
* Ovary		Hemorrhage	Moderate
[ Hemorrhage TGLs = 3-7 ]		Pigmentation	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLs = 1-7 ]			

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 387

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110431

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Intestine Large, Cecum      \* Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Moderate
	[ Clear Cell Focus    TGLs = 4-21 ]		
* Lung		Metaplasia	Osseous, Mild
* Lymph Node, Mandibular		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
Mesentery		Hemangioma	
	Note: THE HEMANGIOMA IS ON SLIDE 5. NEOPLASTIC LESION WAS TABULATED EVEN THOUGH MESENTERY IS A NONPROTOCOL-REQUIRED TISSUE.		
* Ovary		Cystadenoma	
	Note: THE CYSTIC PORTION OF THE CYSTADENOMA CONTAINS EOSINOPHILIC PROTEINACEOUS MATERIAL. ONE SIDE OF THE CYSTADENOMA CONTAINS EXTENSIVE CHRONIC INFLAMMATION.		
	[ Cystadenoma    TGLs = 1-22 ]		
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation    TGLs = 3-6 ]		
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 388

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Natural Death

DAY ON TEST: 609  
 HISTO: 110432

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Bone                   | * Brain                    | * Clitoral Gland          |
| * Esophagus                 | * Eye                    | * Gallbladder              | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Lung                      | * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    |
| * Pancreas                  | * Parathyroid Gland      | * Pituitary Gland          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

MISSING

- \* Adrenal Medulla

OBSERVATIONS

- |                          |   |                                  |                      |
|--------------------------|---|----------------------------------|----------------------|
| * Bone Marrow            |   | Hemangiosarcoma                  |                      |
|                          |   | Hyperplasia                      | Moderate             |
| * Kidney                 |   | Infiltration Cellular            | Lymphocyte, Moderate |
| * Liver                  |   | Hemangiosarcoma                  |                      |
|                          | Kupffer Cell                                    | Hyperplasia                      | Moderate             |
|                          | [ Hemangiosarcoma TGLs = 6-21 ]                 |                                  |                      |
| * Lymph Node, Mandibular |   | Lymphoma Malignant               |                      |
| * Ovary                  |   | Hemangiosarcoma                  |                      |
|                          | [ Hemangiosarcoma TGLs = 4-7 ]                  |                                  |                      |
| * Salivary Glands        |   | Infiltration Cellular            | Lymphocyte, Moderate |
| * Spleen                 |   | Hemangiosarcoma                  |                      |
|                          | [ Hemangiosarcoma TGLs = 2-6 ]                  | Hematopoietic Cell Proliferation | Moderate             |
|                          | [ Hematopoietic Cell Proliferation TGLs = 2-6 ] |                                  |                      |
| * Thyroid Gland          | Follicle  | Degeneration                     | Focal, Moderate      |
| * Urin Bladder           |   |                                  |                      |
|                          | Note: INFUSION ARTIFACT IN URINARY BLADDER.     |                                  |                      |
| * Uterus                 | Endometrium                                     | Hyperplasia                      | Cystic, Moderate     |
|                          | [ Hyperplasia TGLs = 3-7 ]                      |                                  |                      |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 388

**TMT:** 6

**SEX:** Female

**DAY ON TEST:** 609

**DOSE:** 6 MG/KG

**DISP:** Natural Death

**HISTO:** 110432

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH - Spleen Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Lymph Node, Mandibular Lymphoma Malignant

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Animal Note: HEMANGIOSARCOMA IN MESENTERY ON SLIDE 5; NOT TABULATED AS MESENTERY IS A NONPROTOCOL-REQUIRED TISSUE.

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TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 389

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Natural Death

DAY ON TEST: 732  
 HISTO: 110433

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mesenteric
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INSUFFICIENT TISSUE

\* Adrenal Medulla

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Eye		Cataract	Moderate
	Cornea	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Harderian Gland		Carcinoma	
	[ Carcinoma TGLs = 6-12 ]		
* Kidney	Renal Tubule	Cytoplasmic Alteration	Moderate
	Renal Tubule	Pigmentation	Moderate
	Note: CYTOPLASMIC ALTERATION CONSISTS OF EOSINOPHILIA OF RENAL TUBULAR EPITHELIUM.		
* Liver		Hematopoietic Cell Proliferation	Mild
	Centrilobular	Necrosis	Mild
* Mammary Gland		Hyperplasia	Mild
* Pancreas			
	Note: PANCREAS IS VISIBLE PRIMARILY ON SLIDE 5.		
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Skin	Subcut Tiss	Hemangiosarcoma	
	[ Hemangiosarcoma TGLs = 5-21 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 389

TMT: 6

SEX: Female

DAY ON TEST: 732

DOSE: 6 MG/KG

DISP: Natural Death

HISTO: 110433

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLs = 4-6 ]		
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	[ Hyperplasia TGLs = 2-7,3-7 ]		

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Harderian Gland Carcinoma



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 390

TMT: 6

SEX: Female

DAY ON TEST: 733

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110434

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Liver	Hepatocyte	Hyperplasia	Focal, Mild
* Lung		Infiltration Cellular	Lymphocyte, Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Ovary		Cystadenoma	
		Hemorrhage	Moderate
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Lymphoma Malignant	

[ Hematopoietic Cell Proliferation TGLs = 2-6 ]

[ Lymphoma Malignant TGLs = 2-6 ]

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 391

TMT: 6

SEX: Female

DAY ON TEST: 733

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110435

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Moderate
* Pancreas		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLs = 1-1 ]			
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Urin Bladder			

Note: INFUSION ARTIFACT IN URINARY BLADDER.

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 392

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

MISSING

* Gallbladder	* Parathyroid Gland
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OBSERVATIONS

* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Necrosis	Focal, Minimal
	[ Hepatocellular Adenoma TGLs = 3-21,4-22,5-23 ]		
	[ Hepatocellular Carcinoma TGLs = 6-24 ]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Ovary		Hemorrhage	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
	Lymph Follic	Hyperplasia	Moderate
	[ Hematopoietic Cell Proliferation TGLs = 2-6 ]		
	[ Hyperplasia TGLs = 2-6 ]		
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	[ Hyperplasia TGLs = 1-7 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 393

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Natural Death

DAY ON TEST: 617  
 HISTO: 110437

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Rectum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mesenteric

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Esophagus	Submucosa	Edema	Mild
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
* Liver		Tension Lipidosis	
* Lung		Fibrosarcoma	Metastatic (Skin)
* Lymph Node, Mandibular		Pigmentation	Moderate
* Skin	Subcut Tiss	Fibrosarcoma	
	[ Fibrosarcoma TGLs = 2-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Thymus		Fibrosarcoma	Metastatic (Skin)
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 394

TMT: 6

SEX: Female

DAY ON TEST: 733

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110438

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

INSUFFICIENT TISSUE

\* Thyroid Gland

OBSERVATIONS

* Kidney		Infarct	Mild
		Metaplasia	Osseous, Minimal
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 1-21 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	[ Hyperplasia TGLs = 2-7 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 395

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110439

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Mammary Gland
* Nose	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

OBSERVATIONS

* Harderian Gland [ Carcinoma TGLs = 4-12 ]		Carcinoma	
* Kidney		Infarct	Mild
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Ovary		Cyst	Moderate
* Pancreas		Lymphoma Malignant	
* Parathyroid Gland Note: ECTOPIC THYMUS ADJACENT TO HYPERPLASTIC PARATHYROID GLAND.		Hyperplasia	Mild
* Salivary Glands		Lymphoma Malignant	
* Spleen [ Hemangiosarcoma TGLs = 3-21 ]		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant	
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Urinary Bladder Note: INFUSION ARTIFACT IN URINARY BLADDER.		Infiltration Cellular	Lymphocyte, Moderate
* Uterus [ Hyperplasia TGLs = 1-7 ]	Endometrium	Hyperplasia	Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 396

TMT: 6

SEX: Female

DAY ON TEST: 732

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Gallbladder	* Parathyroid Gland
---------------	---------------------

OBSERVATIONS

* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
[ Clear Cell Focus TGLs = 3-21 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLs = 2-7 ]		Hemorrhage	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
[ Hyperplasia TGLs = 1-7 ]			

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 397

TMT: 6

SEX: Female

DAY ON TEST: 732

DOSE: 6 MG/KG

DISP: Terminal Sacrifice

HISTO: 110441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Mild
* Liver		Eosinophilic Focus	
* Spleen		Hematopoietic Cell Proliferation	Moderate
	Lymph Follicle	Hyperplasia	Mild
	[ Hematopoietic Cell Proliferation TGLs = 1-6 ]		
	[ Hyperplasia TGLs = 1-6 ]		
* Thyroid Gland	Follicle	Degeneration	Focal, Mild



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 398

TMT: 6  
DOSE: 6 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 732  
HISTO: 110442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 2-21 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Ovary		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Lymphoma Malignant	
* Urin Bladder			
	Note: INFUSION ARTIFACT IN URINARY BLADDER.		
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[ Hyperplasia TGLs = 1-7 ]		

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 399

TMT: 6  
DOSE: 6 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 732  
HISTO: 110443

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Stomach, Forestomach	* Stomach, Glandular
------------------------	----------------------

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Liver		Clear Cell Focus	
* Ovary		Cyst	Moderate
		Hemorrhage	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

[ Hyperplasia TGLs = 1-7,2-7 ]

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 400

TMT: 6  
 DOSE: 6 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Infiltration Cellular Metaplasia Hemorrhage	Lymphocyte, Mild Osseous, Mild Moderate
* Lymph Node, Mesenteric [ Hemorrhage TGLs = 1-21 ]			
* Pancreas		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 401

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone                   | * Brain                    | * Clitoral Gland          | * Esophagus                 |
| * Eye                    | * Gallbladder              | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Lung                      |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    | * Pancreas                  |
| * Parathyroid Gland      | * Salivary Glands          | * Skin                    | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Thymus                   | * Trachea                 | * Urinary Bladder           |

MISSING

- \* Adrenal Medulla

OBSERVATIONS

- |                             |               |                                  |                      |
|-----------------------------|---------------|----------------------------------|----------------------|
| * Adrenal Cortex            | Capsule       | Hyperplasia                      | Mild                 |
| * Bone Marrow               |               | Hyperplasia                      | Moderate             |
| * Kidney                    |               | Infiltration Cellular            | Lymphocyte, Moderate |
| * Liver                     |               | Infiltration Cellular            | Lymphocyte, Mild     |
| * Lymph Node, Mandibular    |               | Hyperplasia                      | Lymphoid, Mild       |
| * Ovary                     |               | Cyst                             | Moderate             |
|                             |               | Hemorrhage                       | Mild                 |
| * Pituitary Gland           | Pars Distalis | Cyst                             | Moderate             |
| * Spleen                    |               | Hematopoietic Cell Proliferation | Mild                 |
|                             | Lymph Follic  | Hyperplasia                      | Mild                 |
| * Thymus                    |               |                                  |                      |
| Note: THYMUS IS ON SLIDE 2. |               |                                  |                      |
| * Thyroid Gland             | Follicle      | Degeneration                     | Focal, Moderate      |
| * Uterus                    | Endometrium   | Hyperplasia                      | Cystic, Marked       |
|                             |               | Inflammation                     | Acute, Mild          |

[ Hyperplasia TGLs = 1-7 ]

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 402

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                    |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder              |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Mammary Gland             | * Nose                   | * Ovary                    |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Skin                     |
| * Stomach, Forestomach    | * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  |
| * Urinary Bladder         | * Uterus                    |                          |                            |

OBSERVATIONS

- |   |                                  |        |
|---|----------------------------------|--------|
| * Bone Marrow   | Hyperplasia                      | Mild   |
| * Kidney  | Lymphoma Malignant               |        |
| * Liver   | Lymphoma Malignant               |        |
| Note: MALIGNANT LYMPHOMA IS VISIBLE PRIMARILY ON SLIDE 6. |                                  |        |
| [ Lymphoma Malignant TGLs = 3-22 ]                        |                                  |        |
| * Lung  | Lymphoma Malignant               |        |
| Lymph Node  | Mediastinal Lymphoma Malignant   |        |
| [ Lymphoma Malignant TGLs = 4-3 ]                         |                                  |        |
| * Lymph Node, Mandibular                                  | Lymphoma Malignant               |        |
| * Lymph Node, Mesenteric                                  | Hemorrhage                       | Marked |
| [ Hemorrhage TGLs = 2-21 ]                                |                                  |        |
| * Salivary Glands   | Lymphoma Malignant               |        |
| * Spleen  | Hematopoietic Cell Proliferation | Mild   |
| [ Hematopoietic Cell Proliferation TGLs = 1-6 ]           |                                  |        |
| [ Lymphoma Malignant TGLs = 1-6 ]                         |                                  |        |
| * Thymus  | Lymphoma Malignant               |        |
| * Urin Bladder  |                                  |        |
| Note: INFUSION ARTIFACT IN URINARY BLADDER.               |                                  |        |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 403

TMT: 8  
DOSE: 12 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 733  
HISTO: 110447

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Lung		Hemorrhage	Minimal
* Ovary		Cyst	Moderate
[ Cyst TGLs = 1-7 ]			
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLs = 2-7 ]			

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 404

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Moribund Sacrifice

DAY ON TEST: 668  
 HISTO: 110448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla        | * Bone                     | * Brain                   | * Clitoral Gland            |
| * Esophagus              | * Eye                      | * Gallbladder             | * 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       | * Pituitary Gland           |
| * Skin                   | * Spleen                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

OBSERVATIONS

- |   |                                   |                                   |                  |
|---|-----------------------------------|-----------------------------------|------------------|
| * Adrenal Cortex  |                                   | Accessory Adrenal Cortical Nodule | Moderate         |
| * Bone Marrow   |                                   | Mast Cell Tumor Benign            |                  |
| Note: MAST CELL TUMOR CELLS ARE POSITIVE WITH TOLUIDINE BLUE STAIN.                               |                                   |                                   |                  |
| * Harderian Gland   |                                   | Adenoma                           |                  |
| * Lymph Node, Mandibular  |                                   | Pigmentation                      | Moderate         |
| * Ovary   |                                   | Hemorrhage                        | Mild             |
| * Salivary Glands   |                                   | Infiltration Cellular             | Lymphocyte, Mild |
| * Stomach, Forestomach  | Epithelium                        | Hyperplasia                       | Moderate         |
| * Stomach, Glandular  | Epithelium                        | Cytoplasmic Alteration            | Mild             |
| Note: THE "CYTOPLASMIC ALTERATION" CONSISTS OF HYALINE-LIKE DROPLETS IN MUCOSAL EPITHELIAL CELLS. |                                   |                                   |                  |
| * Thymus  |                                   | Lymphoma Malignant                |                  |
|   | [ Lymphoma Malignant TGLs = 2-3 ] |                                   |                  |
| * Uterus  | Endometrium                       | Hyperplasia                       | Cystic, Marked   |
|   | [ Hyperplasia TGLs = 1-7 ]        |                                   |                  |

PRIMARY CAUSE OF DEATH - Thymus Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 405

TMT: 8  
DOSE: 12 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 733  
HISTO: 110449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Harderian Gland		Adenoma	
* Lung		Carcinoma	Metastatic (Uncertain Primary Site)
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen	Lymph Follic	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLs = 2-7 ]



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 406

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone Marrow              | * Brain                   |
| * 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      |
| * Liver                     | * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  |
| * Mammary Gland             | * Nose                   | * Pancreas                 | * Parathyroid Gland       |
| * Pituitary Gland           | * Salivary Glands        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |

MISSING

- \* Gallbladder

OBSERVATIONS

- |          |   |                                  |                   |
|----------|---|----------------------------------|-------------------|
| * Bone   |   | Fibrosis                         | Mild              |
| * Kidney |   | Lymphoma Malignant               |                   |
| * Ovary  |   | Hemorrhage                       | Mild              |
| * Spleen |   | Hematopoietic Cell Proliferation | Mild              |
|          |   | Lymphoma Malignant               |                   |
|          | [ Hematopoietic Cell Proliferation TGLs = 1-6 ] |                                  |                   |
|          | [ Lymphoma Malignant TGLs = 1-6 ]               |                                  |                   |
| * Thymus |   | Hyperplasia                      | Lymphoid, Minimal |
| * Uterus | Endometrium                                     | Hyperplasia                      | Cystic, Mild      |
|          | [ Hyperplasia TGLs = 2-7 ]                      |                                  |                   |

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 407

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Bone Marrow              |
| * Brain                   | * Clitoral Gland            | * Esophagus              | * Eye                      |
| * Gallbladder             | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Mammary Gland             | * Nose                   | * Ovary                    |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          |
| * Skin                    | * Stomach, Forestomach      | * Stomach, Glandular     | * Trachea                  |
| * Urinary Bladder         |                             |                          |                            |

OBSERVATIONS

- |                          |   |                                  |                      |
|--------------------------|---|----------------------------------|----------------------|
| * Harderian Gland        |   | Adenoma                          |                      |
| * Kidney                 |   | Infiltration Cellular            | Lymphocyte, Moderate |
| * Liver                  |   | Hepatocellular Adenoma           |                      |
|                          |   | Lymphoma Malignant               |                      |
|                          | [ Hepatocellular Adenoma TGLs = 3-21 ]      |                                  |                      |
| * Lung                   |   | Hemorrhage                       | Minimal              |
| * Lymph Node, Mandibular |   | Lymphoma Malignant               |                      |
| * Lymph Node, Mesenteric |   | Lymphoma Malignant               |                      |
| * Spleen                 |   | Hematopoietic Cell Proliferation | Minimal              |
|                          |   | Lymphoma Malignant               |                      |
| * Thymus                 |   | Lymphoma Malignant               |                      |
| * Thyroid Gland          | Follicle                                    | Degeneration                     | Focal, Mild          |
| * Urin Bladder           |   |                                  |                      |
|                          | Note: INFUSION ARTIFACT IN URINARY BLADDER. |                                  |                      |
| * Uterus                 | Endometrium                                 | Hyperplasia                      | Cystic, Mild         |
|                          | [ Hyperplasia TGLs = 1-7 ]                  |                                  |                      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 408

TMT: 8  
DOSE: 12 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 732  
HISTO: 110452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* 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	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

INSUFFICIENT TISSUE

\* Gallbladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Esophagus			
Note: ESOPHAGUS IS ON SLIDE 4.			
* Liver		Hepatocellular Adenoma Mixed Cell Focus	Multiple
	[ Hepatocellular Adenoma TGLs = 1-21 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Mild
* Thymus		Hyperplasia	Lymphoid, Mild

Animal Note: TGL 2 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 409

TMT: 8  
DOSE: 12 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 732  
HISTO: 110453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

OBSERVATIONS

* Liver		Clear Cell Focus	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Ovary		Cyst	Moderate
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLs = 1-7,2-7 ]

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 410

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

\* Ovary

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 2-6 ]	Infiltration Cellular	Lymphocyte, Mild
* Pancreas		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	[ Hyperplasia TGLs = 1-7 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 411

TMT: 8

SEX: Female

DAY ON TEST: 733

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland [ Adenoma TGLs = 3-12 ]		Adenoma	
* Kidney		Metaplasia	Osseous, Mild
* Liver		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	
Note: MIXED CELL FOCUS IS ON SLIDE 23. [ Hepatocellular Adenoma TGLs = 1-21,2-22,5-23 ]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follicle	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
[ Hyperplasia TGLs = 4-7 ]			

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 412

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Clitoral Gland          | * Esophagus                 | * Eye                    |
| * Gallbladder              | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      | * Pancreas               |
| * Parathyroid Gland        | * Stomach, Forestomach    | * Stomach, Glandular        | * Trachea                |
| * Urinary Bladder          |                           |                             |                          |

OBSERVATIONS

- |                   |   |  |                              |
|-------------------|---|--|------------------------------|
| * Liver           |   | Basophilic Focus<br>Inflammation                       | Chronic Active, Mild         |
|                   | [ Basophilic Focus TGLs = 7-6 ]                       |  |                              |
| * Lung            |   | Infiltration Cellular<br>Necrosis                      | Lymphocyte, Mild<br>Moderate |
| Mesentery         | Fat   |  |                              |
|                   | [ Necrosis TGLs = 2-7 ]                               |  |                              |
| * Ovary           |   | Cystadenoma  |                              |
|                   | [ Cystadenoma TGLs = 5-7 ]                            |  |                              |
| * Pituitary Gland | Pars Distalis   | Hyperplasia  | Focal, Minimal               |
| * Salivary Glands |   | Infiltration Cellular                                  | Lymphocyte, Moderate         |
| * Skin            | Subcut Tiss   | Sarcoma  |                              |
|                   | Note: THE SKIN SARCOMA IS PRESENT ON SLIDES 8 AND 21. |  |                              |
|                   | [ Sarcoma TGLs = 1-21 ]                               |  |                              |
| * Spleen          |   | Hematopoietic Cell Proliferation<br>Lymphoma Malignant | Moderate                     |
|                   | [ Hematopoietic Cell Proliferation TGLs = 3-6 ]       |  |                              |
|                   | [ Lymphoma Malignant TGLs = 3-6 ]                     |  |                              |
| * Thymus          |   | Lymphoma Malignant                                     |                              |
| * Thyroid Gland   | Follicle  | Degeneration   | Focal, Moderate              |
| * Uterus          | Endometrium   | Hyperplasia  | Cystic, Mild                 |
|                   | [ Hyperplasia TGLs = 4-7 ]                            |  |                              |

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 412

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 12 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 110456

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: THE SKIN SARCOMA IS METATASTATIC TO THE MESENTERY ON SEVERAL SLIDES INCLUDING 4, 5, 6, 7, AND 10.

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TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 413

TMT: 8  
DOSE: 12 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 710  
HISTO: 110457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Islets, Pancreatic
* Kidney	* Nose	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Adrenal Medulla	* Parathyroid Gland	* Thyroid Gland
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AUTO PRECLUDES DIAG.

\* Intestine Small, Jejunum

INSUFFICIENT TISSUE

* Intestine Small, Duodenum	* Stomach, Glandular
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OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Gallbladder	Pigmentation	Marked
* Heart	Mineralization	Moderate
* Liver	Histiocytic Sarcoma	
	Hepatocyte	
	[ Histiocytic Sarcoma TGLs = 3-6 ]	
	[ Vacuolization Cytoplasmic TGLs = 3-6 ]	
* Lung	Histiocytic Sarcoma	
* Lymph Node, Mandibular	Pigmentation	Moderate
* Lymph Node, Mesenteric	Histiocytic Sarcoma	
* Mammary Gland	Hyperplasia	Minimal
* Ovary	Cyst	Moderate
* Pancreas	Histiocytic Sarcoma	
* Spleen	Hematopoietic Cell Proliferation	Moderate
	Histiocytic Sarcoma	
	[ Hematopoietic Cell Proliferation TGLs = 1-6 ]	

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 413

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 710

**DOSE:** 12 MG/KG

**DISP:** Natural Death

**HISTO:** 110457

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Histiocytic Sarcoma TGLs = 1-6 ]

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**PRIMARY CAUSE OF DEATH** - Liver Histiocytic Sarcoma

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TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 414

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* 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, Mandibular
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Uterus

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant	
	[ Hematopoietic Cell Proliferation TGLs = 2-6 ]		
	[ Lymphoma Malignant TGLs = 2-6 ]		
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 415

TMT: 8

SEX: Female

DAY ON TEST: 733

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Islets, Pancreatic		Hyperplasia	Minimal
* Liver		Eosinophilic Focus	
	[ Eosinophilic Focus TGLs = 2-21 ]		
* Ovary		Angiectasis	Mild
		Hemorrhage	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 416

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Natural Death

DAY ON TEST: 691  
 HISTO: 110460

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

AUTO PRECLUDES DIAG.

\* Intestine Small, Duodenum

OBSERVATIONS

* Adrenal Cortex		Amyloid Deposition	Moderate
[ Amyloid Deposition TGLs = 6-10 ]			
* Bone		Fibrosis	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Intestine Large, Cecum		Edema	Moderate
* Kidney		Amyloid Deposition	Marked
		Cyst	Moderate
		Infiltration Cellular	Lymphocyte, Moderate
		Nephropathy	Marked
[ Cyst TGLs = 7-5 ]			
* Lung		Hemorrhage	Mild
[ Hemorrhage TGLs = 9-2 ]			
* Mammary Gland		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLs = 4-21 ]			
* Ovary		Amyloid Deposition	Moderate
* Skin		Edema	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Amyloid Deposition	Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 416

TMT: 8

SEX: Female

DAY ON TEST: 691

DOSE: 12 MG/KG

DISP: Natural Death

HISTO: 110460

ORGAN AND ACCOUNTABLE SITE STATUS

	Endometrium	Angiectasis Hyperplasia	Marked Cystic, Marked
[ Angiectasis	TGLs = 2-22 ]		
[ Hyperplasia	TGLs = 2-22,3-7 ]		

PRIMARY CAUSE OF DEATH - Kidney Amyloid Deposition

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 417

TMT: 8

SEX: Female

DAY ON TEST: 729

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland	Adenoma	
* Liver	Infiltration Cellular	Lymphocyte, Mild
* Lung	Hemorrhage	Moderate
	Infiltration Cellular	Lymphocyte, Moderate
* Lymph Node, Mesenteric	Hyperplasia	Lymphoid, Mild
* Salivary Glands	Infiltration Cellular	Lymphocyte, Moderate
* Thymus	Hyperplasia	Lymphoid, Minimal
* Urin Bladder		

Note: INFUSION ARTIFACT IN URINARY BLADDER.

Animal Note: TGL 2 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 418

TMT: 8

SEX: Female

DAY ON TEST: 729

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110462

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Liver		Basophilic Focus	
		Mixed Cell Focus	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
[ Hyperplasia	TGLs = 1-7 ]		



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 419

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

OBSERVATIONS

* Harderian Gland		Adenoma	
[ Adenoma TGLs = 1-12 ]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Lymphocyte, Mild
* Lymph Node, Mandibular		Lymphoma Malignant	
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 420

TMT: 8

SEX: Female

DAY ON TEST: 729

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 3-6 ]		
* Ovary		Cyst	Moderate
		Cystadenoma	
	[ Cyst TGLs = 1-7 ]		
	[ Cystadenoma TGLs = 2-7 ]		
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Lymphoma Malignant	
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 421

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110465

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Lymphoma Malignant	
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Lymphoma Malignant	
	[ Hematopoietic Cell Proliferation TGLs = 4-6 ]		
	[ Lymphoma Malignant TGLs = 4-6 ]		
* Thymus		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	[ Hyperplasia TGLs = 2-7 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 422

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110466

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Brain                   |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Gallbladder             |
| * 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, Mandibular   | * Lymph Node, Mesenteric  |
| * Mammary Gland             | * Nose                   | * Ovary                    | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Skin                     | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Thyroid Gland            | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

OBSERVATIONS

- |  |              |                                  |                      |
|--|--------------|----------------------------------|----------------------|
| * Bone Marrow  |              | Hyperplasia                      | Mild                 |
| * Harderian Gland  |              | Adenoma                          |                      |
| [ Adenoma TGLs = 5-12 ]  |              |                                  |                      |
| * Lung   |              | Alveolar/Bronchiolar Carcinoma   |                      |
| Note: MODERATE LYMPHOCTIC INFILTRATE IN LUNG; TDMS WILL NOT ALLOW TABULATED ENTRY. |              |                                  |                      |
| [ Alveolar/Bronchiolar Carcinoma TGLs = 4-2 ]                                      |              |                                  |                      |
| * Salivary Glands  |              | Infiltration Cellular            | Lymphocyte, Moderate |
| * Spleen   |              | Hematopoietic Cell Proliferation | Moderate             |
|  | Lymph Follic | Hyperplasia                      | Mild                 |
| [ Hematopoietic Cell Proliferation TGLs = 2-6 ]                                    |              |                                  |                      |
| [ Hyperplasia TGLs = 2-6 ]   |              |                                  |                      |
| * Uterus   |              | Angiectasis                      | Marked               |
|  | Endometrium  | Hyperplasia                      | Cystic, Mild         |
| [ Angiectasis TGLs = 6-7 ]   |              |                                  |                      |
| [ Hyperplasia TGLs = 1-7 ]   |              |                                  |                      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 423

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Bone                     | * Brain                   | * 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 | * Lung                    | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Nose                     | * Parathyroid Gland       | * Pituitary Gland           |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

OBSERVATIONS

- |                          |   |                                  |                   |
|--------------------------|---|----------------------------------|-------------------|
| * Adrenal Medulla        |   | Hyperplasia                      | Minimal           |
| * Bone Marrow            |   | Hyperplasia                      | Moderate          |
| * Gallbladder            |   | Lymphoma Malignant               |                   |
| * Islets, Pancreatic     |   | Lymphoma Malignant               |                   |
| * Kidney                 |   | Hyperplasia                      | Mild              |
|                          |   | Lymphoma Malignant               |                   |
|                          |   | Metaplasia                       | Osseous, Moderate |
| * Liver                  |   | Lymphoma Malignant               |                   |
| * Lymph Node, Mandibular |   | Lymphoma Malignant               |                   |
| * Ovary                  |   | Hemorrhage                       | Mild              |
| * Pancreas               |   | Lymphoma Malignant               |                   |
| * Salivary Glands        |   | Lymphoma Malignant               |                   |
| * Skin                   |   | Cyst Epithelial Inclusion        |                   |
|                          | [ Cyst Epithelial Inclusion TGLs = 3-21 ]       |                                  |                   |
| * Spleen                 |   | Hematopoietic Cell Proliferation | Mild              |
|                          |   | Lymphoma Malignant               |                   |
|                          | [ Hematopoietic Cell Proliferation TGLs = 1-6 ] |                                  |                   |
|                          | [ Lymphoma Malignant TGLs = 1-6 ]               |                                  |                   |
| * Uterus                 | Endometrium                                     | Hyperplasia                      | Cystic, Mild      |
|                          | [ Hyperplasia TGLs = 2-7 ]                      |                                  |                   |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 424

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow	Hyperplasia	Moderate
* Eye	Atrophy	Marked
	Carcinoma	Metastatic (Harderian Gland)
	Inflammation	Chronic, Mild
[ Atrophy TGLs = 5-44 ]		
* Harderian Gland	Carcinoma	
[ Carcinoma TGLs = 4-12 ]		
* Liver	Hematopoietic Cell Proliferation	Mild
	Tension Lipidosis	
* Lung	Carcinoma	Metastatic (Harderian Gland)
* Lymph Node, Mesenteric	Atrophy	Moderate
* Ovary	Cyst	Moderate
[ Cyst TGLs = 3-7 ]		
* Salivary Glands	Infiltration Cellular	Lymphocyte, Mild
* Spleen	Hematopoietic Cell Proliferation	Moderate
* Thymus	Atrophy	Moderate
* Uterus	Angiectasis	Moderate
	Endometrium	
	Hyperplasia	Cystic, Moderate
	Necrosis	Moderate
	Thrombosis	Moderate
[ Hyperplasia TGLs = 1-7 ]		
[ Necrosis TGLs = 2-7 ]		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 425

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Moderate
* Bone Marrow		Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Moderate
* Liver		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Moderate
		Mixed Cell Focus	
	[ Eosinophilic Focus TGLs = 4-21 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Marked
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLs = 5-22 ]		
* Ovary		Hemorrhage	Moderate
	[ Hemorrhage TGLs = 3-7 ]		
* Pituitary Gland	Pars Distalis	Hemorrhage	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
	[ Hemorrhage TGLs = 6-1 ]		
	[ Hyperplasia TGLs = 6-1 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLs = 1-6 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

\* PROTOCOL REQUIRED TISSUE

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

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**ANIMAL NUM:** 425

**TMT:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 12 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:** 110469

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hyperplasia TGLs = 2-7 ]

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TDMS No. 99037 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010

Time Report Requested: 13:38:29

First Dose M/F: 06/30/03 / 06/30/03

Lab: SRI

ANIMAL NUM: 426

TMT: 8

SEX: Female

DAY ON TEST: 732

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                          |                           |
|-----------------------------|--------------------------|--------------------------|---------------------------|
| * Adrenal Medulla           | * Bone Marrow            | * Brain                  | * Clitoral Gland          |
| * Esophagus                 | * Eye                    | * Gallbladder            | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic     | * Liver                   |
| * Lung                      | * Lymph Node, Mandibular | * Mammary Gland          | * Nose                    |
| * Ovary                     | * Pancreas               | * Parathyroid Gland      | * Pituitary Gland         |
| * Skin                      | * Stomach, Forestomach   | * Stomach, Glandular     | * Thymus                  |
| * Thyroid Gland             | * Trachea                |                          |                           |

OBSERVATIONS

- |   |              |                                   |                      |
|---|--------------|-----------------------------------|----------------------|
| * Adrenal Cortex                                |              | Accessory Adrenal Cortical Nodule | Moderate             |
| * Bone  |              | Fibrosis                          | Mild                 |
| * Esophagus                                     |              |                                   |                      |
| Note: ESOPHAGUS IS ON SLIDE 4.                  |              |                                   |                      |
| * Intestine Small, Jejunum                      |              | Hyperplasia                       | Lymphoid, Moderate   |
| [ Hyperplasia TGLs = 5-3 ]                      |              |                                   |                      |
| * Kidney  |              | Infiltration Cellular             | Lymphocyte, Moderate |
|   |              | Nephropathy                       | Moderate             |
| * Lymph Node, Mesenteric                        |              | Hematopoietic Cell Proliferation  | Moderate             |
|   |              | Hyperplasia                       | Lymphoid, Mild       |
| * Salivary Glands                               |              | Infiltration Cellular             | Lymphocyte, Mild     |
| * Spleen  |              | Hematopoietic Cell Proliferation  | Mild                 |
|   | Lymph Follic | Hyperplasia                       | Marked               |
| [ Hematopoietic Cell Proliferation TGLs = 2-6 ] |              |                                   |                      |
| [ Hyperplasia TGLs = 2-6 ]                      |              |                                   |                      |
| * Urinary Bladder                               |              | Infiltration Cellular             | Lymphocyte, Moderate |
| * Uterus  | Endometrium  | Hyperplasia                       | Cystic, Marked       |
| [ Hyperplasia TGLs = 3-7,4-7 ]                  |              |                                   |                      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 427

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Focal, Mild
* Harderian Gland		Carcinoma	
* Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Diffuse, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Ovary		Angiectasis	Mild
		Cyst	Moderate
		Hemorrhage	Mild
[ Cyst TGLs = 2-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
	Lymph Follic	Hyperplasia	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLs = 1-7 ]			

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 428

TMT: 8

SEX: Female

DAY ON TEST: 732

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110472

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Intestine Small, Duodenum [ Adenoma TGLs = 5-22 ]		Adenoma	
* Kidney		Infarct	Minimal
* Liver [ Hepatocellular Adenoma TGLs = 4-23 ]		Hepatocellular Adenoma Mixed Cell Focus	
* Lung		Infiltration Cellular	Lymphocyte, Mild
* Lymph Node, Mesenteric [ Hemorrhage TGLs = 3-21 ]		Hemorrhage	Marked
* Ovary		Hemorrhage	Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen [ Hematopoietic Cell Proliferation TGLs = 1-6 ]		Hematopoietic Cell Proliferation	Marked
* Stomach, Glandular		Cyst	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus [ Hyperplasia TGLs = 2-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 429

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 732  
 HISTO: 110473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla           | * Bone                   | * Brain                    | * Clitoral Gland          |
| * Esophagus                 | * Eye                    | * Gallbladder              | * Harderian Gland         |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           |
| * Nose                      | * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         |
| * Salivary Glands           | * Skin                   | * Stomach, Forestomach     | * Stomach, Glandular      |
| * Thymus                    | * Trachea                | * Urinary Bladder          |                           |

OBSERVATIONS

- |                  |             |                                   |                         |
|------------------|-------------|-----------------------------------|-------------------------|
| * Adrenal Cortex |             | Accessory Adrenal Cortical Nodule | Moderate                |
| * Bone Marrow    |             | Hyperplasia                       | Moderate                |
| * Liver          |             | Inflammation                      | Chronic Active, Minimal |
| * Lung           |             | Hemorrhage                        | Minimal                 |
|                  |             | Infiltration Cellular             | Lymphocyte, Mild        |
| * Ovary          |             | Cyst                              | Moderate                |
| * Spleen         |             | Hematopoietic Cell Proliferation  | Mild                    |
| * Thyroid Gland  | Follicle    | Degeneration                      | Focal, Mild             |
| * Uterus         | Endometrium | Hyperplasia                       | Cystic, Moderate        |

[ Hyperplasia TGLs = 1-7 ]

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 430

TMT: 8

SEX: Female

DAY ON TEST: 732

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110474

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Lymph Node, Mesenteric

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLs = 4-22 ]		
* Mammary Gland		Adenoma	
	[ Adenoma TGLs = 1-21 ]		
* Ovary		Angiectasis	Marked
		Cyst	Moderate
		Hemorrhage	Mild
	[ Angiectasis TGLs = 5-7 ]		
	[ Cyst TGLs = 5-7 ]		
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[ Hyperplasia TGLs = 2-7,3-7 ]		

TDMS No. 99037 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010

Time Report Requested: 13:38:29

First Dose M/F: 06/30/03 / 06/30/03

Lab: SRI

ANIMAL NUM: 431

TMT: 8

SEX: Female

DAY ON TEST: 732

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                          |                          |                          |
|---------------------------|--------------------------|--------------------------|--------------------------|
| * Adrenal Medulla         | * Bone                   | * Bone Marrow            | * Brain                  |
| * Clitoral Gland          | * Esophagus              | * Eye                    | * Gallbladder            |
| * Harderian Gland         | * Heart                  | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Ileum | * Islets, Pancreatic     | * Kidney                 |
| * Lung                    | * Lymph Node, Mandibular | * Mammary Gland          | * Nose                   |
| * Ovary                   | * Pancreas               | * Parathyroid Gland      | * Pituitary Gland        |
| * Salivary Glands         | * Skin                   | * Stomach, Forestomach   | * Stomach, Glandular     |
| * Thymus                  | * Trachea                | * Urinary Bladder        |                          |

OBSERVATIONS

- |                                    |              |                    |                 |
|------------------------------------|--------------|--------------------|-----------------|
| * Adrenal Cortex                   | Capsule      | Hyperplasia        | Mild            |
| * Intestine Small, Duodenum        |              | Diverticulum       |                 |
| * Intestine Small, Jejunum         |              | Lymphoma Malignant |                 |
| [ Lymphoma Malignant TGLs = 4-21 ] |              |                    |                 |
| * Liver                            |              | Lymphoma Malignant |                 |
| * Lymph Node, Mesenteric           |              | Lymphoma Malignant |                 |
| [ Lymphoma Malignant TGLs = 3-5 ]  |              |                    |                 |
| * Spleen                           | Lymph Follic | Hyperplasia        | Mild            |
| * Thyroid Gland                    | Follicle     | Degeneration       | Focal, Moderate |
| * Uterus                           | Endometrium  | Hyperplasia        | Cystic, Minimal |
|                                    |              | Leiomyosarcoma     |                 |
| [ Hyperplasia TGLs = 1-7 ]         |              |                    |                 |
| [ Leiomyosarcoma TGLs = 2-7 ]      |              |                    |                 |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 432

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Moribund Sacrifice

DAY ON TEST: 719  
 HISTO: 110476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Clitoral Gland         | * Esophagus                |
| * Eye                     | * Gallbladder               | * Harderian Gland        | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland            |
| * Nose                    | * Ovary                     | * Parathyroid Gland      | * Pituitary Gland          |
| * Salivary Glands         | * Skin                      | * Stomach, Glandular     | * Trachea                  |
| * Urinary Bladder         | * Uterus                    |                          |                            |

OBSERVATIONS

- |                          |  |                                   |          |
|--------------------------|--|-----------------------------------|----------|
| * Adrenal Cortex         |  | Accessory Adrenal Cortical Nodule | Moderate |
| * Bone Marrow            |  | Histiocytic Sarcoma               |          |
|                          |  | Hyperplasia                       | Moderate |
| * Brain                  |  | Hemorrhage                        | Moderate |
|                          |  | Necrosis                          | Mild     |
|                          | [ Hemorrhage TGLs = 7-1 ]  |                                   |          |
|                          | [ Necrosis TGLs = 7-1 ]  |                                   |          |
| * Heart                  |  | Histiocytic Sarcoma               |          |
| * Intestine Large, Cecum |  | Edema                             | Moderate |
| * Kidney                 | Renal Tubule   | Accumulation, Hyaline Droplet     | Moderate |
|                          |  | Histiocytic Sarcoma               |          |
|                          |  | Nephropathy                       | Minimal  |
| * Liver                  |  | Histiocytic Sarcoma               |          |
|                          | [ Histiocytic Sarcoma TGLs = 4-6,5-21 ]                                |                                   |          |
| * Lung                   |  | Hemorrhage                        | Moderate |
|                          |  | Histiocytic Sarcoma               |          |
|                          | [ Hemorrhage TGLs = 6-2 ]  |                                   |          |
|                          | [ Histiocytic Sarcoma TGLs = 6-2 ]                                     |                                   |          |
| * Pancreas               |  | Histiocytic Sarcoma               |          |
|                          | Note: HISTIOCYTIC SARCOMA IN PANCREAS IS VISIBLE PRIMARILY ON SLIDE 5. |                                   |          |
| * Spleen                 |  | Hematopoietic Cell Proliferation  | Marked   |
|                          |  | Histiocytic Sarcoma               |          |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 432

TMT: 8

SEX: Female

DAY ON TEST: 719

DOSE: 12 MG/KG

DISP: Moribund Sacrifice

HISTO: 110476

ORGAN AND ACCOUNTABLE SITE STATUS

[ Hematopoietic Cell Proliferation TGLs = 3-6 ]

[ Histiocytic Sarcoma TGLs = 3-6 ]

\* Stomach, Forestomach

Erosion

Minimal

\* Thymus

Atrophy

Moderate

\* Thyroid Gland

Follicle

Degeneration

Focal, Moderate

PRIMARY CAUSE OF DEATH

- Liver Histiocytic Sarcoma



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 433

TMT: 8

SEX: Female

DAY ON TEST: 732

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110477

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLs = 3-21 ]		
* Ovary		Hemorrhage	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	[ Hyperplasia TGLs = 1-7,2-7 ]		

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 434

TMT: 8

SEX: Female

DAY ON TEST: 732

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Pancreas		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
[ Hyperplasia	TGLs = 1-7 ]		

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 435

TMT: 8

SEX: Female

DAY ON TEST: 732

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Lymph Node, Mesenteric		Hemorrhage	Marked
[ Hemorrhage TGLs = 1-21 ]			
* Ovary		Luteoma	
[ Luteoma TGLs = 3-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLs = 2-7 ]			

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 436

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 729  
 HISTO: 110480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
* Liver		Eosinophilic Focus	
* Lymph Node, Mesenteric		Ectasia	Marked
		Hemorrhage	Moderate
		Pigmentation	Moderate
[ Ectasia TGLs = 1-21 ]			
[ Hemorrhage TGLs = 1-21 ]			
[ Pigmentation TGLs = 1-21 ]			
* Spleen	Lymph Follic	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 437

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Moribund Sacrifice

DAY ON TEST: 579  
 HISTO: 110481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Harderian Gland	* Thymus
-------------------	----------

OBSERVATIONS

* Brain		Carcinoma Compression	Metastatic (Pituitary Gland) Marked
[ Carcinoma TGLs = 2-1 ]			
[ Compression TGLs = 2-1 ]			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
* Mammary Gland		Hyperplasia	Moderate
* Pancreas		Cyst	Moderate
* Pituitary Gland	Pars Intermed	Carcinoma	
[ Carcinoma TGLs = 4-1 ]			
* Spleen		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Intermed Carcinoma

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 438

TMT: 8

SEX: Female

DAY ON TEST: 729

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110482

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Pituitary Gland

OBSERVATIONS

* Ovary	Cyst	Moderate
[ Cyst TGLs = 2-7 ]		

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 439

TMT: 8  
DOSE: 12 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 729  
HISTO: 110483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Brain                   |
| * Clitoral Gland            | * Esophagus              | * Eye                      | * Gallbladder             |
| * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Lung                   | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  |
| * Mammary Gland             | * Nose                   | * Ovary                    | * Pancreas                |
| * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          | * Skin                    |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Thymus                   | * Trachea                 |
| * Urinary Bladder           |                          |                            |                           |

OBSERVATIONS

- |                   |   |                                  |                |
|-------------------|---|----------------------------------|----------------|
| * Bone Marrow     |   | Hyperplasia                      | Mild           |
| * Harderian Gland |   | Adenoma                          |                |
|                   | [ Adenoma TGLs = 2-12 ]                             |                                  |                |
| * Liver           |   | Histiocytic Sarcoma              |                |
|                   | Note: THE HISTIOCYTIC SARCOMA IS IN AN EARLY STAGE. |                                  |                |
| * Spleen          |   | Hematopoietic Cell Proliferation | Mild           |
| * Thyroid Gland   | Follicle  | Degeneration                     | Focal, Minimal |
| * Uterus          |   | Histiocytic Sarcoma              |                |
|                   | [ Histiocytic Sarcoma TGLs = 1-7 ]                  |                                  |                |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 440

TMT: 8  
DOSE: 12 MG/KG

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 729  
HISTO: 110484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Moderate
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Hyperplasia	Focal, Minimal
* Intestine Small, Ileum	Epithelium	Hyperplasia	Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate

Animal Note: TGL 1 = NCL (No Corresponding Lesion)



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 441

TMT: 8

SEX: Female

DAY ON TEST: 711

DOSE: 12 MG/KG

DISP: Natural Death

HISTO: 110485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Ovary	* Parathyroid Gland	* Thymus
---------	---------------------	----------

AUTO PRECLUDES DIAG.

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

OBSERVATIONS

* Gallbladder		Pigmentation	Marked
* Kidney		Metaplasia	Osseous, Mild
* Liver		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLs = 3-6 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLs = 1-6 ]	Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLs = 1-6 ]		
* Uterus		Angiectasis	Moderate
	Endometrium	Hyperplasia	Cystic, Minimal
	[ Hyperplasia TGLs = 2-7 ]		

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 442

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 733  
 HISTO: 110486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Eye	Cornea	Hyperplasia Inflammation	Mild Chronic, Mild
* Harderian Gland		Carcinoma	
[ Carcinoma TGLs = 5-12 ]			
* Islets, Pancreatic		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Marked
[ Necrosis TGLs = 4-21 ]			
* Ovary		Angiectasis	Moderate
		Cyst	Moderate
[ Angiectasis TGLs = 1-7 ]			
[ Cyst TGLs = 2-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLs = 3-7 ]			

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 443

TMT: 8  
DOSE: 12 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 647  
HISTO: 110487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Eye	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Clitoral Gland

AUTO PRECLUDES DIAG.

\* Gallbladder

OBSERVATIONS

* Bone Marrow	Hyperplasia	Moderate
* Harderian Gland	Adenoma	
* Liver	Eosinophilic Focus	
	Inflammation	Chronic Active, Mild
[ Inflammation TGLs = 2-6 ]		
* Lymph Node, Mandibular	Lymphoma Malignant	
* Lymph Node, Mesenteric	Lymphoma Malignant	
[ Lymphoma Malignant TGLs = 3-21 ]		
* Mammary Gland	Hyperplasia	Mild
* Spleen	Hematopoietic Cell Proliferation	Moderate
	Lymphoma Malignant	
* Thymus	Lymphoma Malignant	
[ Lymphoma Malignant TGLs = 7-3 ]		

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 444

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Natural Death

DAY ON TEST: 694  
 HISTO: 110488

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                          |
|---------------------------|-----------------------------|--------------------------|--------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Bone                   | * Brain                  |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder            |
| * Harderian Gland         | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic     |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                   | * Parathyroid Gland      |
| * Pituitary Gland         | * Salivary Glands           | * Skin                   | * Stomach, Glandular     |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | * Uterus                 |

OBSERVATIONS

Blood Vessel

Note: MARKED MINERALIZATION IN AORTA; NOT TABULATED SINCE "BLOOD VESSEL" IS NOT INDICATED ON TDMS COMPUTER SCREEN AS PROTOCOL REQUIRED.

\* Bone Marrow Hyperplasia Moderate

\* Gallbladder

Note: GALLBLADDER IS DILATED AND CONTAINS EXTENSIVE BASOPHILIC STIPPLING THAT APPEARS TO BE BACTERIA (MORPHOLOGIES UNAVAILABLE ON TDMS).

\* Intestine Small, Jejunum Leiomyosarcoma

[ Leiomyosarcoma TGLs = 3-24 ]

\* Kidney Mineralization Mild

Nephropathy Minimal

\* Liver Hepatocyte Vacuolization Cytoplasmic Moderate

[ Vacuolization Cytoplasmic TGLs = 1-6 ]

\* Lung Alveolar/Bronchiolar Adenoma

Hemorrhage Mild

Thrombosis Mild

Note: LUNG THROMBOSIS IS ON SLIDE 23.

[ Alveolar/Bronchiolar Adenoma TGLs = 6-23 ]

[ Hemorrhage TGLs = 5-2 ]

\* Lymph Node, Mandibular Pigmentation Moderate

Mesentery Leiomyosarcoma Metastatic (Intestine Small, Jejunum)

Fat Necrosis Marked

[ Leiomyosarcoma TGLs = 4-22 ]

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 444

TMT: 8

SEX: Female

DAY ON TEST: 694

DOSE: 12 MG/KG

DISP: Natural Death

HISTO: 110488

ORGAN AND ACCOUNTABLE SITE STATUS

[ Necrosis TGLs = 4-22 ]

* Ovary		Cyst	Moderate
* Pancreas		Atrophy	Marked
		Cyst	Moderate

Note: ACINAR PANCREAS (MARKEDLY ATROPHIED) AND ISLETS ARE PRESENT ON SLIDE 21.

[ Cyst TGLs = 2-21 ]

* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
	[ Hyperplasia TGLs = 7-4 ]		
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Intestine Small, Jejunum Leiomyosarcoma

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 445

TMT: 8

SEX: Female

DAY ON TEST: 733

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Ovary		Cystadenoma	
[ Cystadenoma TGLs = 2-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
[ Hyperplasia TGLs = 1-7 ]			

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 446

TMT: 8

SEX: Female

DAY ON TEST: 731

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

INSUFFICIENT TISSUE

\* Lymph Node, Mesenteric

OBSERVATIONS

Lymph Node

Note: MALIGNANT LYMPHOMA IS PRESENT IN INGUINAL LYMPH NODE ON SLIDE 8; NOT TABULATED AS INGUINAL LYMPH NODE IS A NONPROTOCOL-REQUIRED TISSUE.

* Ovary		Cyst	Moderate
[ Cyst TGLs = 2-7 ]			
* Spleen	Lymph Follic	Hyperplasia	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLs = 1-7 ]			

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 447

TMT: 8

SEX: Female

DAY ON TEST: 543

DOSE: 12 MG/KG

DISP: Natural Death

HISTO: 110491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Intestine Small, Duodenum

AUTO PRECLUDES DIAG.

\* Gallbladder

OBSERVATIONS

* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen	Lymph Follic	Atrophy	Moderate
		Pigmentation	Moderate
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN



TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 448

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110492

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Ovary		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
	Lymph Follic	Hyperplasia	Moderate
* Stomach, Glandular		Cyst	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Marked

[ Hyperplasia TGLs = 1-7 ]

TDMS No. 99037 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010

Time Report Requested: 13:38:29

First Dose M/F: 06/30/03 / 06/30/03

Lab: SRI

ANIMAL NUM: 449

TMT: 8

SEX: Female

DAY ON TEST: 731

DOSE: 12 MG/KG

DISP: Terminal Sacrifice

HISTO: 110493

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Clitoral Gland          | * Esophagus                 | * Eye                    |
| * Gallbladder              | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    | * Lung                   |
| * Lymph Node, Mandibular   | * Mammary Gland           | * Nose                      | * Ovary                  |
| * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        |
| * Skin                     | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                   | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |

OBSERVATIONS

- |                                |             |              |                      |
|--------------------------------|-------------|--------------|----------------------|
| * Esophagus                    |             |              |                      |
| Note: ESOPHAGUS IS ON SLIDE 2. |             |              |                      |
| * Liver                        |             | Inflammation | Chronic Active, Mild |
| * Lymph Node, Mesenteric       |             | Ectasia      | Marked               |
| [ Ectasia TGLs = 3-22 ]        |             |              |                      |
| Mesentery                      | Fat         | Necrosis     | Marked               |
| [ Necrosis TGLs = 1-21 ]       |             |              |                      |
| * Uterus                       | Endometrium | Hyperplasia  | Cystic, Minimal      |
| [ Hyperplasia TGLs = 2-7 ]     |             |              |                      |

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
 Time Report Requested: 13:38:29  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

ANIMAL NUM: 450

TMT: 8  
 DOSE: 12 MG/KG

SEX: Female  
 DISP: Terminal Sacrifice

DAY ON TEST: 731  
 HISTO: 110494

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
		Infiltration Cellular	Lymphocyte, Mild
		Nephropathy	Minimal
* Liver	Kupffer Cell	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Mammary Gland		Hyperplasia	Moderate
	[ Hyperplasia TGLs = 6-8 ]		
* Skin	Subcut Tiss	Schwannoma Malignant	
	[ Schwannoma Malignant TGLs = 5-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLs = 2-6 ]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

Animal Note: TGL 3 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 451

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 138  
HISTO: 110495

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

\* Lung Foreign Body Inflammation Chronic, Mild

Note: INFLAMMATION AND FOREIGN BODY ARE ON THE PLEURA.

\* Urin Bladder

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 452

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Accidentally Killed

DAY ON TEST: 169  
HISTO: 110496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

AUTO PRECLUDES DIAG.

\* Intestine Small, Ileum

OBSERVATIONS

* Brain		Hemorrhage	Minimal
[ Hemorrhage TGLs = 5-1 ]			
* Skin		Hemorrhage	Moderate
Note: SKIN HEMORRHAGE IS IN THE DEEP ASPECT OF SUBCUTIS ADJACENT TO SKELETAL MUSCLE.			
[ Hemorrhage TGLs = 2-21,3-22 ]			
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 453

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Moribund Sacrifice

DAY ON TEST: 316  
HISTO: 110497

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland	* Thyroid Gland
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 454

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 282  
HISTO: 110498

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Lung	Hemorrhage	Mild
--------	------------	------

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 455

TMT: 10

SEX: Female

DAY ON TEST: 239

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110499

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Urin Bladder			

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH

- UNCERTAIN



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 456

TMT: 10

SEX: Female

DAY ON TEST: 316

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 110500

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

\* Ovary

Cyst

Marked

[ Cyst TGLs = 1-7 ]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 457

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 282  
HISTO: 110501

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 458

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 239  
HISTO: 110502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 459

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 232  
HISTO: 110503

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 460

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Moribund Sacrifice

DAY ON TEST: 316  
HISTO: 110504

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Parathyroid Gland		Cyst	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 461

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Dosing Accident

DAY ON TEST: 4  
HISTO: 110505

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* 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	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

\* Gallbladder

OBSERVATIONS

* Bone Marrow	Hyperplasia	Moderate
* Esophagus	Inflammation	Acute, Moderate
[ Inflammation TGLs = 1-21 ]		
* Lung	Foreign Body	
Note: INFLAMMATION AND FOREIGN BODY INVOLVE MEDIASTINUM AND PLEURA.		
[ Foreign Body TGLs = 5-2 ]		
Pleura	Inflammation	Acute, Marked
* Spleen	Hematopoietic Cell Proliferation	Mild
* Thymus	Atrophy	Moderate
	Inflammation	Chronic Active, Moderate
[ Inflammation TGLs = 4-3 ]		
* Trachea		
Note: TRACHEA (NO VISIBLE LESION) IS ON SLIDE 3.		

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 462

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 292  
HISTO: 110506

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Clitoral Gland          | * Esophagus                 | * Eye                    |
| * Gallbladder              | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      | * Ovary                  |
| * Pancreas                 | * Parathyroid Gland       | * Pituitary Gland           | * Salivary Glands        |
| * Skin                     | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Thymus                   | * Thyroid Gland           | * Trachea                   | * Urinary Bladder        |
| * Uterus                   |                           |                             |                          |

OBSERVATIONS

- |          |             |         |
|----------|-------------|---------|
| * Kidney | Nephropathy | Minimal |
| * Lung   | Hemorrhage  | Minimal |

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 463

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 134  
HISTO: 110507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

INSUFFICIENT TISSUE

\* Gallbladder

PRIMARY CAUSE OF DEATH - UNCERTAIN



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 464

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 197  
HISTO: 110508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 465

TMT: 10

SEX: Female

DAY ON TEST: 285

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Lung	Hemorrhage	Mild
[ Hemorrhage TGLs = 1-2 ]		
* Parathyroid Gland	Cyst	Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 466

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 274  
HISTO: 110510

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Pituitary Gland

OBSERVATIONS

* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
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PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 467

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 296  
HISTO: 110511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Pancreas	Atrophy	Minimal
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PRIMARY CAUSE OF DEATH - UNCERTAIN

**TDMS No.** 99037 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/06/2010  
**Time Report Requested:** 13:38:29  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

**ANIMAL NUM:** 468

**TMT:** 10  
**DOSE:** 25 MG/KG

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 250  
**HISTO:** 110512

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | * Bone                      | * Bone Marrow            | * Brain                    |
| * Clitoral Gland          | * Esophagus                 | * Eye                    | * Gallbladder              |
| * 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, Mandibular   |
| * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                   | * Ovary                    |
| * Pancreas                | * Parathyroid Gland         | * Pituitary Gland        | * Salivary Glands          |
| * Skin                    | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

**OBSERVATIONS**

- |                  |                           |                                   |              |
|------------------|---------------------------|-----------------------------------|--------------|
| * Adrenal Cortex |                           | Accessory Adrenal Cortical Nodule | Moderate     |
| * Lung           |                           | Hemorrhage                        | Mild         |
|                  | [ Hemorrhage TGLs = 1-2 ] |                                   |              |
| * Uterus         | Endometrium               | Hyperplasia                       | Cystic, Mild |

**PRIMARY CAUSE OF DEATH** - UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 469

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 309  
HISTO: 110513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
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PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 470

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 288  
HISTO: 110514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Liver		Necrosis	Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 471

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 136  
HISTO: 110515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Spleen	Pigmentation	Mild

[ Pigmentation TGLs = 2-6 ]

PRIMARY CAUSE OF DEATH - UNCERTAIN



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 472

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 149  
HISTO: 110516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Lung	Inflammation	Chronic Active, Minimal
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PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 473

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 248  
HISTO: 110517

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 474

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 276  
HISTO: 110518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 475

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Moribund Sacrifice

DAY ON TEST: 316  
HISTO: 110519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 476

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Moribund Sacrifice

DAY ON TEST: 316  
HISTO: 110520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Esophagus	Submucosa	Edema	Mild
* Kidney		Nephropathy	Minimal
* Liver		Necrosis	Focal, Minimal
* Lymph Node, Mandibular		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Lymphoid, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 477

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 177  
HISTO: 110521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 478

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Moribund Sacrifice

DAY ON TEST: 316  
HISTO: 110522

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Adrenal Medulla

OBSERVATIONS

\* Thymus  
\* Urin Bladder

Hyperplasia

Lymphoid, Minimal

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 479

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 284  
HISTO: 110523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

PRIMARY CAUSE OF DEATH

- UNCERTAIN



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 480

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 292  
HISTO: 110524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Clitoral Gland

OBSERVATIONS

* Uterus	Endometrium	Hyperplasia	Cystic, Mild
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PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 481

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Dosing Accident

DAY ON TEST: 4  
HISTO: 110525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Eye
* Gallbladder	* 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, Mandibular	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Urinary Bladder	* Uterus		

MISSING

\* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow	Hyperplasia	Moderate
* Esophagus	Inflammation	Acute, Mild
	Ulcer	Mild
* Lung	Foreign Body	
Note: INFLAMMATION AND FOREIGN BODY INVOLVE PLEURA AND MEDIASTINUM. [ Foreign Body TGLs = 1-2,2-2 ]		
* Lymph Node, Mesenteric	Atrophy	Moderate
Pleura	Inflammation	Acute, Marked
* Spleen	Hematopoietic Cell Proliferation	Moderate
* Thymus	Atrophy	Moderate
	Inflammation	Chronic Active, Moderate
* Trachea	Inflammation	Chronic Active, Marked

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 482

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 215  
HISTO: 110526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 483

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 284  
HISTO: 110527

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 484

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 257  
HISTO: 110528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

Tongue		Cyst	Moderate
[ Cyst TGLs = 1-21 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 485

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 184  
HISTO: 110529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 486

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Dosing Accident

DAY ON TEST: 6  
HISTO: 110530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Eye	* Harderian Gland	* Heart
* Intestine Large, Colon	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

\* Thymus

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

INSUFFICIENT TISSUE

\* Lymph Node, Mesenteric      \* Pituitary Gland

OBSERVATIONS

* Bone Marrow	Hyperplasia	Marked
* Esophagus	Inflammation	Acute, Moderate
[ Inflammation TGLs = 2-22 ]		
* Lung	Foreign Body	
Note: INFLAMMATION AND FOREIGN BODY INVOLVE THE PLEURA AND MEDIASTINUM.		
* Pancreas		
Note: PANCREAS IS PRESENT ON SLIDE 5.		
Pleura	Inflammation	Acute, Marked
* Spleen	Hematopoietic Cell Proliferation	Moderate
* Trachea		
Note: TRACHEA IS ON SLIDE 3 (NO VISIBLE LESION); NO SLIDE 21 PRESENT.		
* Urin Bladder		
Note: INFUSION ARTIFACT IN URINARY BLADDER.		

\* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 487

TMT: 10

SEX: Female

DAY ON TEST: 290

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 110531

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Harderian Gland		Adenoma	
* Pituitary Gland	Rathkes Cleft	Dilatation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 488

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 253  
HISTO: 110532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

\* Intestine Small, Jejunum

OBSERVATIONS

* Ovary		Cyst	Moderate
[ Cyst TGLs = 1-7 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 489

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 159  
HISTO: 110533

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Pituitary Gland

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 490

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 166  
HISTO: 110534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 491

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 249  
HISTO: 110535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Parathyroid Gland		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 493

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Moribund Sacrifice

DAY ON TEST: 316  
HISTO: 110537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Cyst	Mild
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 494

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Moribund Sacrifice

DAY ON TEST: 316  
HISTO: 110538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 495

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 131  
HISTO: 110539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

\* Lymph Node, Mesenteric

OBSERVATIONS

* Lung	Hemorrhage	Minimal
* Lymph Node, Mandibular	Hyperplasia	Lymphoid, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN



TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

**ANIMAL NUM:** 496

**TMT:** 10

**SEX:** Female

**DAY ON TEST:** 234

**DOSE:** 25 MG/KG

**DISP:** Natural Death

**HISTO:** 110540

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
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PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 497

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 275  
HISTO: 110541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

\* Lymph Node, Mesenteric

OBSERVATIONS

* Parathyroid Gland	Cyst	Moderate
* Urin Bladder		

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 498

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 205  
HISTO: 110542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 06  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/06/2010  
Time Report Requested: 13:38:29  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

ANIMAL NUM: 499

TMT: 10  
DOSE: 25 MG/KG

SEX: Female  
DISP: Natural Death

DAY ON TEST: 156  
HISTO: 110543

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Lung	Arteriole	Hypertrophy	Mild
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PRIMARY CAUSE OF DEATH - UNCERTAIN

