

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

F2_R2

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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 Lab: SRI

ANIMAL NUM: 1

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 656
 HISTO: 109215

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Thymus
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AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Thyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
		Degeneration	Fatty, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Brain		Compression	
	[Compression TGLs = 3-1]		
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Moderate
	[Ectasia TGLs = 1-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
		Pigmentation	Mild
	[Adenoma TGLs = 2-1]		

* PROTOCOL REQUIRED TISSUE

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Lab: SRI

ANIMAL NUM: 1

TMT: 1

SEX: Male

DAY ON TEST: 656

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 109215

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: TGL 3 = NCL (No Corresponding Lesion)

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 Lab: SRI

ANIMAL NUM: 2

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 367
 HISTO: 109216

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
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hematopoietic Cell Proliferation	Minimal
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
		Metaplasia	Osseous, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibrosarcoma	
Note: TGL 2-21 Lesion includes marked necrosis; thrombosis; inflammation; and edema. [Fibrosarcoma TGLs = 2-21]			
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLs = 3-6]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Stomach, Glandular		Erosion	Minimal

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

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First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 3

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 674
HISTO: 109217

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Brain		Hypertrophy	Focal, Minimal
	[Compression TGLs = 5-1]	Compression	
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Carcinoma	
	Note: TGL 1-7 was observed on slide # 7-2.		
	[Carcinoma TGLs = 1-7]		
* Kidney		Casts Protein	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4-1]		

* PROTOCOL REQUIRED TISSUE

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Lab: SRI

ANIMAL NUM: 3

TMT: 1

SEX: Male

DAY ON TEST: 674

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 109217

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia Inflammation	Mild Chronic, Moderate
[Hyperplasia TGLs = 2-7-1]			
[Inflammation TGLs = 2-7-1]			
* Spleen		Pigmentation	Moderate
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Islets, Pancreatic Carcinoma

Animal Note: TGL 3=NCL (No Corresponding Lesion)

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Lab: SRI

ANIMAL NUM: 4

TMT: 1

SEX: Male

DAY ON TEST: 163

DOSE: 0 MG/KG

DISP: Dosing Accident

HISTO: 109218

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Eye	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Esophagus

Hemorrhage

Mild

Inflammation

Acute, Moderate

Note: There is marked acute inflammation, hemorrhage and edema in the fat surrounding the thyroid glands, trachea and esophagus

Note: TGL 6-24 Lesion includes basophilic linear foreign material and bacteria

[Hemorrhage TGLs = 6-24]

[Inflammation TGLs = 6-24]

* Heart

Cardiomyopathy

Mild

* Kidney

Mineralization

Minimal

* Liver

Hepatodiaphragmatic Nodule

[Hepatodiaphragmatic Nodule TGLs = 5-23]

* Nose

Foreign Body

Mild

* Salivary Glands

Inflammation

Acute, Minimal

Note: TGL 3-8 Mild edema and minimal mixed inflammatory cell infiltrate in fat surrounding salivary glands

[Inflammation TGLs = 3-8]

* Spleen

Pigmentation

Mild

Animal Note: TGL 8 = NCL (No Corresponding Lesion)

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 Lab: SRI

ANIMAL NUM: 5

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 615
 HISTO: 109219

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration Hyperplasia	Fatty, Minimal Focal, Mild
* Brain	[Compression TGLs = 3-1]	Compression	
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein Infarct Mineralization Nephropathy	Minimal Moderate Minimal Mild
* Liver	[Infarct TGLs = 5-22]	Basophilic Focus Hyperplasia Infiltration Cellular	Minimal Mixed Cell, Minimal
* Lung		Infiltration Cellular Metaplasia	Histiocyte, Minimal Osseous, Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland	[Adenoma TGLs = 2-1]		
	[Adenoma TGLs = 1-8]	Adenoma	

* PROTOCOL REQUIRED TISSUE

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Lab: SRI

ANIMAL NUM: 5

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 615
HISTO: 109219

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia Inflammation	Minimal Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

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 Lab: SRI

ANIMAL NUM: 6

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109220

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Moderate
	[Adenoma TGLs = 2-1]		
* Prostate		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1-7]		
* Thyroid Gland	C Cell	Adenoma	

* 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: 729
 HISTO: 109221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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	* Lung
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Leukemia Mononuclear TGLs = 5-6]			
* Mammary Gland	Duct	Ectasia	Moderate
		Hyperplasia	Mild
[Ectasia TGLs = 3-8]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 6-1]			
* Preputial Gland		Carcinoma	
[Carcinoma TGLs = 1-22]			
* Skin		Trichoepithelioma	
[Trichoepithelioma TGLs = 2-21]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

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Lab: SRI

ANIMAL NUM: 7

TMT: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109221

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Bilateral, Interstit Cell	Adenoma
Note: Left testicular interstitial cell adenoma is very small. [Adenoma TGLs = 4-7]		
* Thyroid Gland	C Cell	Adenoma

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 Lab: SRI

ANIMAL NUM: 8

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 677
 HISTO: 109222

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Degeneration	Fatty, Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Myelofibrosis	Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Marked
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Sarcoma	Metastatic (Skin)
	[Sarcoma TGLs = 4-22]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: Mediastinal lymph node-Neoplastic cells (sarcoma) observed in mediastinal lymph node (slide #3, 3.1).			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Sarcoma	Metastatic (Skin)
Skel Muscle			
Note: Neoplastic cells (sarcoma) observed in the skeletal muscle surrounding the femur (slide #9).			

* PROTOCOL REQUIRED TISSUE

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ANIMAL NUM: 8

TMT: 1

SEX: Male

DAY ON TEST: 677

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 109222

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Subcut Tiss	Sarcoma	
[Sarcoma TGLs = 2-21]			
* Spleen	Lymph Follic	Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Minimal
		Pigmentation	Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLs = 3-7]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Sarcoma

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 Lab: SRI

ANIMAL NUM: 9

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109223

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | | Hyperplasia | Focal, Minimal |
| * Eye | | Cataract | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| | | Schwannoma Benign | |
| * Kidney | | Nephropathy | Marked |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Minimal |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 2-22] | | |
| * Pancreas | Acinus | Hyperplasia | Focal, Mild |
| | [Hyperplasia TGLs = 4-7] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Cyst | |
| * Prostate | Epithelium | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

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First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 9

TMT: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109223

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Trichoepithelioma
	[Trichoepithelioma TGLs = 1-21]	
* Testes	Bilateral, Interstit Cell	Adenoma
	[Adenoma TGLs = 3-7]	

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 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 10

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109224

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
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Eosinophilic Focus	
		Hyperplasia	Mild
		Mixed Cell Focus	
	[Eosinophilic Focus TGLs = 10-6]		
	[Mixed Cell Focus TGLs = 6-23]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 8-3]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-5]		
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Moderate
	[Leukemia Mononuclear TGLs = 3-22]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 10

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109224

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLs = 3-22]			
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Salivary Glands		Atrophy	Minimal
* Skin	Subcut Tiss	Fibroma	
		Keratoacanthoma	
[Fibroma TGLs = 9-24]			
[Keratoacanthoma TGLs = 1-21]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-7]			
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 11

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109225

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland	Duct	Ectasia	Mild
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 6-1]			
* Preputial Gland		Cyst	
		Inflammation	Chronic, Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 11

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109225

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLs = 2-23] [Inflammation TGLs = 2-23]			
* Prostate		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibroma Sarcoma	
[Fibroma TGLs = 4-22] [Sarcoma TGLs = 1-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 3-7]			
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 12

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Parathyroid Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration Leukemia Mononuclear	Fatty, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	
	[Compression TGLs = 8-1]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
	Note: TGL 9-21 Abnormal fissures and lobulations are not routinely tabulated.		
	[Leukemia Mononuclear TGLs = 5-6]		
* Lung		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland	Duct	Ectasia	Moderate
	[Ectasia TGLs = 1-8]		
* Pancreas		Atrophy Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 7-1]		
* Prostate		Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 12

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109226

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 6-7-1]	Inflammation	Chronic, Mild
* Salivary Glands	Atrophy	Minimal
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-6]		
* Testes	Adenoma	
[Adenoma TGLs = 4-7]		

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 13

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 702
 HISTO: 109227

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|-----------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---|-----------------------------------|----------------------------------|----------------------|
| * Adrenal Cortex | | Hematopoietic Cell Proliferation | Minimal |
| * Adrenal Medulla | | Hyperplasia | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Small, Ileum | | Inflammation | Chronic Active, Mild |
| Note: Ileum-lesion on serosal surface-chronic active inflammation with fibrosis and neovascularization. | | | |
| * Kidney | | Casts Protein | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | [Eosinophilic Focus TGLs = 4-6] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | Mediastinal | Hemorrhage | Mild |
| | [Ectasia TGLs = 6-3] | | |
| | [Hemorrhage TGLs = 6-3] | | |
| * Mammary Gland | Duct | Ectasia | Marked |
| * Pancreas | | Atrophy | Moderate |
| | | Cyst | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 13

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 702
HISTO: 109227

ORGAN AND ACCOUNTABLE SITE STATUS

	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Mixed Tumor Benign	
	Pars Distalis	Angiectasis	Minimal
* Preputial Gland		Hyperplasia	Focal, Moderate
* Skin		Inflammation	Chronic, Mild
		Basal Cell Adenoma	
Note: TGL 7-2 Basal cell adenoma with primarily sebaceous cell differentiation.			
Note: TGL 7-2 Epidermis overlying lesion had moderate erosion of epithelium and was covered by a serocellular exudate.			
[Basal Cell Adenoma TGLs = 7-22]			
* Spleen		Angiectasis	Marked
		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Mild
Note: TGL 2-21 This lesion consists of a 2x2x2mm cyst lined by flattened endothelial-type cells and filled with eosinophilic proteinaceous material.			
[Angiectasis TGLs = 2-21]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-7]			
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Skin Basal Cell Adenoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 14

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * 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 | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|------------------|--|-----------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | [Leukemia Mononuclear TGLs = 5-6] | Leukemia Mononuclear | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 8-2] | | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-7] | | |
| Mesentery | | Leukemia Mononuclear | |
| | Fat | Necrosis | Moderate |
| | [Leukemia Mononuclear TGLs = 2-22, 7-23, 7-23-1] | | |
| | [Necrosis TGLs = 2-22, 7-23, 7-23-1] | | |
| * Pancreas | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 14

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 109228

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Intermed Pars Distalis	Cyst Hyperplasia Keratoacanthoma	Focal, Minimal
* Skin	[Keratoacanthoma TGLs = 1-21]		
* Spleen	[Leukemia Mononuclear TGLs = 4-6]	Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell [Adenoma TGLs = 3-7]	Adenoma	

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 15

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
	Capsule	Hyperplasia	Mild
		Hyperplasia	Focal, Mild
* Harderian Gland		Hyperplasia	Focal, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
	[Hepatodiaphragmatic Nodule		
* Lung	TGLs = 3-21] Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Intermed	Hyperplasia	Focal, Minimal
* Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 15

TMT: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109229

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLs = 1-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 16

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-5]		
* Mammary Gland	Duct	Ectasia	Mild
* Pancreas		Atrophy	Mild
	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1-6]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 16

TMT: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109230

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Interstit Cell

Adenoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 17

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 356
 HISTO: 109231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Brain		Compression	
	[Compression TGLs = 3-1]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Mammary Gland	Duct	Ectasia	Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Pigmentation	Minimal
	[Adenoma TGLs = 2-1]		
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: TGL 1=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 18

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 689
 HISTO: 109232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-6,6-21,7-22]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy	Mild
		Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 18

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 689
HISTO: 109232

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 2-7]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 19

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109233

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
	[Hyperplasia TGLs = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Intermed	Hyperplasia	Focal, Mild
	Pars Distalis	Hyperplasia	Focal, Mild
	[Hyperplasia TGLs = 5-1]		
* Prostate		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 19

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109233

ORGAN AND ACCOUNTABLE SITE STATUS

Keratoacanthoma

Note: TGL 1-21 This lesion includes marked inflammation and granulation tissue.

Note: TGL 2-22 This lesion is atypical with low cellularity and less compaction of collagen fibers (resembles a collagen nevus).

[Fibroma TGLs = 2-22]

[Keratoacanthoma TGLs = 1-21]

* Spleen	Lymph Follic	Hyperplasia	Mild
		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 3-7]		
* Thyroid Gland		Degeneration	Cystic, Minimal

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 20

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109234

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
* Mammary Gland [Fibrosis TGLs = 4-22]		Fibrosis	Moderate
* Pancreas	Acinus	Atrophy Hyperplasia	Minimal Focal, Mild
* Spleen	Lymph Follic	Hyperplasia	Mild
* Testes	Germinal Epith Interstit Cell	Atrophy Hyperplasia	Mild Mild
* Thyroid Gland		Degeneration	Cystic, Mild

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 21

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 730
 HISTO: 109235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lung | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- * Kidney
- * Thyroid Gland

OBSERVATIONS

- | | | | |
|-------------------------------------|------------|---------------------------|-----------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Brain | | Compression | |
| [Compression TGLs = 5-1] | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| [Adenoma TGLs = 2-7] | | | |
| * Liver | | Basophilic Focus | |
| | | Degeneration | Cystic, Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | Hepatocyte | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 3-6] | | Vacuolization Cytoplasmic | Minimal |
| * Lymph Node, Mesenteric | | Hemorrhage | Minimal |
| * Mammary Gland | Duct | Ectasia | Mild |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLs = 1-21, 4-22] | | | |
| * Pancreas | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 21

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 730
HISTO: 109235

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLs = 6-1]	Pars Distalis	Adenoma	
* Prostate		Adenoma Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
* Testes	Germinal Epith Interstit Cell	Atrophy Hyperplasia	Mild Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 22

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109236

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
		Degeneration	Fatty, Minimal
		Hypertrophy	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland	Duct	Ectasia	Mild
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 1-21]		
* Nose		Foreign Body	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4-1]		
* Prostate	Epithelium	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 22

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109236

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Inflammation	Chronic, Mild
	Pigmentation	Mild
Note: TGL 3-22 Abnormal fissures and lobulations are not routinely tabulated.		
* Testes	Interstit Cell	Adenoma
[Adenoma TGLs = 2-7]		

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 23

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109237

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * 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 | * Parathyroid Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|--|---|--|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule
Degeneration | Mild
Fatty, Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Eye | | Cataract | Minimal |
| * Heart | | Cardiomyopathy
Schwannoma Benign | Mild |
| * Kidney | | Mineralization
Nephropathy | Minimal
Minimal |
| * Liver | | Basophilic Focus
Clear Cell Focus
Hepatodiaphragmatic Nodule
Infiltration Cellular | Mixed Cell, Minimal |
| | [Hepatodiaphragmatic Nodule TGLs = 4-22] | | |
| * Lung | | Basal Cell Carcinoma
Infiltration Cellular | Metastatic (Skin)
Histiocyte, Minimal |
| | [Basal Cell Carcinoma TGLs = 8-23] | | |
| Lymph Node | Pancreatic
Pancreatic | Hemorrhage
Pigmentation | Minimal
Minimal |
| | [Hemorrhage TGLs = 3-7] | | |
| | [Pigmentation TGLs = 3-7] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 23

TMT: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109237

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Ectasia TGLs = 6-5]		Ectasia	Moderate
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Basal Cell Carcinoma	
Note: TGL 1-21 Basal cell carcinoma-very anaplastic neoplasm. [Basal Cell Carcinoma TGLs = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
	Lymph Follic	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 7-7]			
* Thyroid Gland		Degeneration	Cystic, Minimal
		Ultimobranchial Cyst	Minimal

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 24

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 716
 HISTO: 109238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * 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 | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

INSUFFICIENT TISSUE

- * Preputial Gland

OBSERVATIONS

- | | | | |
|-------------------|-------------------------------------|---------------------------|------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| | | Thrombosis | |
| | [Thrombosis TGLs = 7-12] | | |
| * Kidney | | Casts Protein | Minimal |
| | | Infarct | Mild |
| | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Marked |
| | | Leukemia Mononuclear | |
| | Hepatocyte | Vacuolization Cytoplasmic | Mild |
| | [Leukemia Mononuclear TGLs = 6-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Moderate |
| | | Infiltration Cellular | Histiocyte, Mild |
| | | Leukemia Mononuclear | |
| | [Hyperplasia TGLs = 11-23, 12-24] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 24

TMT: 1

SEX: Male

DAY ON TEST: 716

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 109238

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear Lymph Node	TGLs = 11-23, 12-24] Pancreatic Deep Cervical	Leukemia Mononuclear Leukemia Mononuclear	
[Leukemia Mononuclear * Lymph Node, Mesenteric	TGLs = 2-7] TGLs = 8-22]	Leukemia Mononuclear	
[Leukemia Mononuclear * Mammary Gland	TGLs = 3-5] Duct	Ectasia	Moderate
Mesentery	Fat	Necrosis	Mild
[Necrosis * Nose	TGLs = 1-21] Goblet Cell	Foreign Body Hyperplasia Inflammation	Mild Mild Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma Pigmentation	Minimal
[Adenoma * Prostate	TGLs = 9-1] Epithelium	Hyperplasia Inflammation Leukemia Mononuclear Fibrosis Leukemia Mononuclear	Mild Chronic, Moderate Mild
[Leukemia Mononuclear * Stomach, Forestomach	TGLs = 4-6] Epithelium	Hyperplasia	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
 CONTRIBUTORY CAUSE OF DEATH - Heart Thrombosis

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 25

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 540
 HISTO: 109239

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * 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 |
| * Nose | * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|-------------------------------------|-----------------------|---------------------|
| * Adrenal Cortex | | Necrosis | Minimal |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| | | Myelofibrosis | Minimal |
| * Brain | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | | Degeneration | Cystic, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-6] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | Duct | Ectasia | Minimal |
| Mesentery | Fat | Necrosis | Moderate |
| | [Necrosis TGLs = 4-21] | | |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Intermed | Cyst | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 25

TMT: 1

SEX: Male

DAY ON TEST: 540

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 109239

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear
[Leukemia Mononuclear	TGLs = 2-6]	
* Testes	Interstit Cell	Adenoma
[Adenoma	TGLs = 3-7]	
* Urinary Bladder		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 26

TMT: 1

SEX: Male

DAY ON TEST: 704

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 109240

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Parathyroid Gland	* Preputial Gland	* Stomach, Forestomach
* Thyroid Gland	* Trachea		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex [Necrosis TGLs = 8-10]	Bilateral	Necrosis	Marked
* Bone Marrow		Leukemia Mononuclear	
* Brain [Compression TGLs = 14-1]		Compression	
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum [Edema TGLs = 16-22] [Inflammation TGLs = 16-22]		Edema Inflammation	Marked Acute, Mild
* Intestine Large, Colon Note: TGL 17-23 Colon-edema mild on slide #23. However, lesion was more severe (marked) on slide # 4. [Edema TGLs = 17-23]		Edema	Marked
* Kidney		Casts Granular Hydronephrosis Mesothelioma Malignant Mineralization	Moderate Mild Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 26

TMT: 1

SEX: Male

DAY ON TEST: 704

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 109240

ORGAN AND ACCOUNTABLE SITE STATUS

	Papilla	Necrosis	Moderate
		Nephropathy	Marked
* Liver	[Hydronephrosis TGLs = 9-5]		
	Bile Duct	Basophilic Focus	
		Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mesothelioma Malignant	
* Lung	[Leukemia Mononuclear TGLs = 11-6, 12-21]		
		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Lymph Node, Mesenteric	[Leukemia Mononuclear TGLs = 13-2]		
* Mammary Gland	Duct	Leukemia Mononuclear	
	[Ectasia TGLs = 1-8]	Ectasia	Moderate
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
		Cyst	
		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 15-1]		
* Prostate		Fibrosis	Mild
	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
		Leukemia Mononuclear	
		Mesothelioma Malignant	
	[Fibrosis TGLs = 5-7-1]		
	[Hyperplasia TGLs = 5-7-1]		
	[Inflammation TGLs = 5-7-1]		
	[Leukemia Mononuclear TGLs = 5-7-1]		
* Salivary Glands		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 26

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 704
HISTO: 109240

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Leukemia Mononuclear Mesothelioma Malignant	
	[Leukemia Mononuclear TGLs = 18-7]		
	[Mesothelioma Malignant TGLs = 18-7]		
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLs = 19-24]		
* Spleen		Leukemia Mononuclear Mesothelioma Malignant	
	[Leukemia Mononuclear TGLs = 7-6]		
* Stomach, Glandular		Mesothelioma Malignant	
* Testes	Interstit Cell Germinal Epith	Adenoma Atrophy Mesothelioma Malignant	Marked
	[Adenoma TGLs = 2-7]		
	[Atrophy TGLs = 3-7]		
* Urinary Bladder		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-8]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 27

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|----------------------|------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Casts Protein | Mild |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | Duct | Ectasia | Minimal |
| * Pancreas | | Cyst | |
| | Acinus | Hyperplasia | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2-1] | | |
| * Prostate | Epithelium | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 27

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 109241

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Lymph Follic	Hyperplasia	Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLs = 1-7]			

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 28

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109242

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * 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 | * Lymph Node, Mesenteric | * Nose |
| * Parathyroid Gland | * Prostate | * Seminal Vesicle | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | | Degeneration | Fatty, Mild |
| | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Moderate |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Casts Protein | Mild |
| | | Mesothelioma Malignant | Metastatic (Testes) |
| | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 3-23] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 6-25] | | |
| * Pancreas | | Atrophy | Mild |
| | | Mesothelioma Malignant | Metastatic (Testes) |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 28

TMT: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109242

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia Pigmentation	Focal, Mild Minimal
	[Hyperplasia TGLs = 9-1]		
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Minimal
* Skin	Subcut Tiss	Fibrosarcoma	Multiple
	Epidermis	Hyperkeratosis	Marked
	Epidermis	Hyperplasia	Focal, Moderate
Note: TGI 8-26 This lesion was necrotic with small thrombi and proliferation of blood vessels and fibroblasts (granulation tissue).			
	[Fibrosarcoma TGLs = 1-21, 2-22, 8-26]		
	[Hyperkeratosis TGLs = 4-24]		
* Spleen	Lymph Follic	Hyperplasia Mesothelioma Malignant Pigmentation	Mild Metastatic (Testes) Minimal
* Stomach, Forestomach		Mesothelioma Malignant	Metastatic (Testes)
* Stomach, Glandular		Mesothelioma Malignant	Metastatic (Testes)
* Testes	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant	
	[Adenoma TGLs = 5-7]		

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 29

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Dosing Accident

DAY ON TEST: 370
 HISTO: 109243

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Lymph Node	* Lymph Node, Mandibular	* Thymus
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AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
--------------------------	--------------------------	----------------------------

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
* Esophagus		Inflammation	Acute, Moderate
		Perforation	
	[Inflammation TGLs = 5-21, 6-3]		
	[Perforation TGLs = 5-21]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
Lymph Node			
	Note: Mediastinal lymph node-missing (TGL 8-3)		
* Nose		Foreign Body	Minimal
		Inflammation	Chronic, Minimal
* Spleen		Pigmentation	Moderate
* Testes	Interstit Cell	Hyperplasia	Minimal
* Trachea		Inflammation	Acute, Moderate
	[Inflammation TGLs = 7-3]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 29

TMT: 1

SEX: Male

DAY ON TEST: 370

DOSE: 0 MG/KG

DISP: Dosing Accident

HISTO: 109243

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: TGL 1,4=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 30

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|--------------------------|---------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|-------------------------------------|----------------------|------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Harderian Gland | | Inflammation | Chronic, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Small, Ileum | | Necrosis | Minimal |
| * Kidney | | Leukemia Mononuclear | |
| | Artery | Nephropathy | Minimal |
| * Liver | | Thrombosis | |
| | [Leukemia Mononuclear TGLs = 5-6] | Leukemia Mononuclear | |
| * Lung | | | |
| | [Leukemia Mononuclear TGLs = 6-2] | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | | |
| | [Leukemia Mononuclear TGLs = 4-5] | Leukemia Mononuclear | |
| * Mammary Gland | Duct | Ectasia | Minimal |
| * Nose | Respirat Epith | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| * Pancreas | | Atrophy | Minimal |
| | | Cyst | |
| | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 30

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 109244

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	[Adenoma TGLs = 8-1]	Epithelium	Leukemia Mononuclear	
			Hyperplasia	Mild
* Skin			Leukemia Mononuclear	
			Sarcoma	
* Spleen	[Sarcoma TGLs = 7-21]		Leukemia Mononuclear	
* Testes	[Leukemia Mononuclear TGLs = 3-22]	Interstit Cell	Adenoma	
* Thymus	[Adenoma TGLs = 2-7]		Leukemia Mononuclear	

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 31

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109245

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* 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	* Lung	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Minimal
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy	Mild
		Cyst	
* Preputial Gland		Hyperplasia	Moderate
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 31

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 109245

ORGAN AND ACCOUNTABLE SITE STATUS

Keratoacanthoma

Note: TGL 3-22 Cross section of a mass covered by hyperplastic epithelium; hyperkeratosis; subcutaneous inflammation, hemorrhage, edema; and serocellular exudate

[Fibroma TGLs = 2-21]

[Keratoacanthoma TGLs = 3-22]

* Spleen

Pigmentation

Mild

* Stomach, Glandular

Erosion

Minimal

* Testes

Interstit Cell

Adenoma

[Adenoma TGLs = 4-7]

* Thyroid Gland

Ultimobranchial Cyst

Mild

Animal Note: TGL 1 = NCL (No Correlating Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 32

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 540
 HISTO: 109246

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Epididymis	* Esophagus
* 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	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Thymus	* Trachea

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Mild
* Bone Marrow		Leukemia Mononuclear	
		Leukemia Mononuclear	
		Myelofibrosis	Minimal
* Brain		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 9-1, 10-1]		
* Eye		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 8-12]		
* Kidney		Casts Protein	Minimal
		Leukemia Mononuclear	
		Nephropathy	Minimal
	[Leukemia Mononuclear TGLs = 6-5]		
* Liver		Bile Duct	Moderate
		Hyperplasia	
		Leukemia Mononuclear	
		Hepatocyte	Mild
	[Leukemia Mononuclear TGLs = 3-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Atrophy	Minimal
		Cyst	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 32

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 540
 HISTO: 109246

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 5-23]
 * Pituitary Gland Pars Distalis

Cyst
 Leukemia Mononuclear
 Inflammation

* Preputial Gland

Chronic, Mild

Leukemia Mononuclear
 Leukemia Mononuclear
 Fibrosis
 Infarct
 Leukemia Mononuclear

* Prostate
 * Spleen

Mild
 Moderate

[Infarct TGLs = 1-21]

[Leukemia Mononuclear TGLs = 2-22]
 * Stomach, Forestomach Epithelium

Hyperplasia
 Leukemia Mononuclear

Moderate

[Leukemia Mononuclear TGLs = 11-4]

* Stomach, Glandular
 [Leukemia Mononuclear TGLs = 11-4]
 * Testes Bilateral, Interstit Cell

Leukemia Mononuclear
 Ulcer

Moderate

[Adenoma TGLs = 4-7]

* Thyroid Gland C Cell
 * Urinary Bladder

Adenoma
 Hyperplasia
 Leukemia Mononuclear

Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 33

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	Skeletal Muscle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Intestine Large, Rectum	* Lymph Node, Mandibular
---------------------------	--------------------------

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Casts Protein	Minimal
		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Degeneration	Cystic, Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLs = 7-22, 8-25]		
	[Leukemia Mononuclear TGLs = 6-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland	Duct	Ectasia	Mild
	[Ectasia TGLs = 2-21]		
* Pancreas		Atrophy	Minimal
		Cyst	

Note: Pancreas-cyst-This lesion does not correspond to the described size of TGL 4-7.

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 33

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 109247

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 11-1]			
* Preputial Gland		Adenoma	
[Adenoma TGLs = 1-8]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLs = 12-24]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 5-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 3-7]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 9-3]			
* Thyroid Gland	C Cell	Hyperplasia	Marked

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 34

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 575
 HISTO: 109248

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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 |
| * Lymph Node, Mesenteric | * Parathyroid Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|--|-----------------------------------|-------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | | Degeneration | Fatty, Mild |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Bone | | Osteosarcoma | |
| | [Osteosarcoma TGLs = 1-22, 1-22-1] | | |
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-6] | | |
| * Lung | | Osteosarcoma | Metastatic (Bone) |
| | [Osteosarcoma TGLs = 4-2, 5-2, 6-2] | | |
| * Mammary Gland | Duct | Ectasia | Mild |
| * Nose | | Leukemia Mononuclear | |
| * Pancreas | | Cyst | |
| * Pituitary Gland | Pars Distalis | Cyst | |
| | Pars Intermed | Cyst | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| Skeletal Muscle | | Osteosarcoma | Metastatic (Bone) |
| | Note: Metastatic osteosarcoma observed in skeletal muscle on head (slide # 9). | | |
| | [Osteosarcoma TGLs = 2-21] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 34

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 575
HISTO: 109248

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Bone Osteosarcoma
CONTRIBUTORY CAUSE OF DEATH - Skeletal Muscle Osteosarcoma Bone
- Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 35

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mesenteric | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

- * Lymph Node, Mandibular

INSUFFICIENT TISSUE

- * Mammary Gland

OBSERVATIONS

- | | | | |
|----------------------|----------------|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Casts Protein | Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | Hepatocyte | Vacuolization Cytoplasmic | Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | | Foreign Body | Minimal |
| | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Pancreas | | Atrophy | Minimal |
| | | Cyst | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 35

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 109249

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
		Hyperkeratosis	Mild
Note: TGL 1-21 This lesion is atypical, with low cellularity and less compaction of collagen fibers (resembles a collagen nevus).			
		[Fibroma TGLs = 1-21]	
		[Hyperkeratosis TGLs = 1-21]	
* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLs = 2-7]	
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 36

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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	* Lung
* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Cyst	
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-6]		
* Mammary Gland	Duct	Ectasia	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3-1]		
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 36

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 109250

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear Leukemia Mononuclear Pigmentation	Minimal
[Leukemia Mononuclear	TGLs = 1-6]		
* Testes	Germinal Epith Interstit Cell	Atrophy Hyperplasia	Minimal Minimal
* Thyroid Gland		Degeneration	Cystic, Minimal

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 37

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * 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 | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- | | |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

- | | | | |
|-------------------|---|---|---------------------------|
| * Adrenal Medulla | | Leukemia Mononuclear
Pheochromocytoma Benign | |
| | [Leukemia Mononuclear TGLs = 4-10]
[Pheochromocytoma Benign TGLs = 4-10] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus
Clear Cell Focus | |
| | Bile Duct | Hyperplasia
Leukemia Mononuclear | Moderate |
| | [Leukemia Mononuclear TGLs = 5-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Nose | | Foreign Body | Mild |
| | Respirat Epith | Hyperplasia
Inflammation | Mild
Chronic, Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Minimal |
| * Prostate | Epithelium | Hyperplasia
Inflammation | Minimal
Chronic, Mild |
| * Spleen | | Leukemia Mononuclear | |

Note: TGL 2-21 Abnormal fissures and lobulations are not routinely tabulated.

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 37

TMT: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109251

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Leukemia Mononuclear TGLs = 3-6]
[Adenoma TGLs = 1-7] Bilateral, Interstit Cell Adenoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 38

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 677
 HISTO: 109252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|---|--------------------------------|-----------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Eye | Bilateral | Cataract | Marked |
| | Retina | Degeneration | Marked |
| | | Edema | Moderate |
| | [Cataract TGLs = 15-44] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Casts Protein | Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Degeneration | Cystic, Minimal |
| | Bile Duct | Hyperplasia | Marked |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 8-6] | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | Multiple |
| | | Leukemia Mononuclear | |
| | [Alveolar/Bronchiolar Carcinoma TGLs = 12-2, 13-23] | | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 38

TMT: 1

SEX: Male

DAY ON TEST: 677

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 109252

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear	TGLs = 5-7]		
[Leukemia Mononuclear	TGLs = 10-3]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pituitary Gland		Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Marked
[Inflammation	TGLs = 1-8]		
* Prostate		Leukemia Mononuclear	
* Skin		Inflammation	Granulomatous, Marked
[Inflammation	TGLs = 3-21]		
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 6-6, 7-6]		
* Stomach, Forestomach		Epithelium	Hyperplasia
* Testes		Bilateral, Interstit Cell	Adenoma
[Adenoma	TGLs = 4-7]		
Tissue NOS		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
[Alveolar/Bronchiolar Carcinoma	TGLs = 11-22, 14-24]		

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma
 CONTRIBUTORY CAUSE OF DEATH - Eye Bilateral Cataract
 - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 39

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109253

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* 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
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Heart		Cardiomyopathy Schwannoma Malignant	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Clear Cell Focus Hepatodiaphragmatic Nodule Histiocytic Sarcoma Hyperplasia	Mild
	Bile Duct		
	[Hepatodiaphragmatic Nodule TGLs = 4-22]		
	[Histiocytic Sarcoma TGLs = 3-6, 5-23, 6-24]		
* Lung		Histiocytic Sarcoma	
	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Minimal
Mesentery		Histiocytic Sarcoma	
	Fat	Necrosis	Mild
	[Histiocytic Sarcoma TGLs = 2-21]		
	[Necrosis TGLs = 2-21]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Prostate	Epithelium	Hyperplasia Inflammation	Minimal Chronic, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 39

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109253

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-7]			
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 40

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 540
HISTO: 109254

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
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Mammary Gland * Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hypertrophy	Focal, Mild
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLs = 4-22]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibroma	

Note: TGL 1-21 Lesion includes marked necrosis, hemorrhage, and edema.
[Fibroma TGLs = 1-21]

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 40

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 540
HISTO: 109254

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Moderate
	Lymph Follic	Hyperplasia	Minimal
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLs = 3-7]		

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 41

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 612
 HISTO: 109255

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Seminal Vesicle	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Minimal
* Heart		Cardiomyopathy	Mild
		Thrombosis	
* Intestine Large, Colon		Edema	Mild
* Kidney		Casts Protein	Minimal
		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Marked
	[Leukemia Mononuclear TGLs = 7-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 11-2]		
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-7]		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
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 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 41

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 612
 HISTO: 109255

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery	[Leukemia Mononuclear TGLs = 10-5]	Leukemia Mononuclear	
* Pituitary Gland	[Leukemia Mononuclear TGLs = 4-7] Pars Distalis Pars Distalis	Cyst Hyperplasia Leukemia Mononuclear	Focal, Mild
* Prostate	Epithelium	Hyperplasia Inflammation	Minimal Chronic, Mild
* Salivary Glands	Duct	Atrophy Hyperplasia Leukemia Mononuclear	Minimal Minimal
Note: Focal area with leukemic cell infiltrates, atrophy of glandular parenchyma and hyperplasia of ductal tissue.			
* Skin	Subcut Tiss	Fibroma	
Note: TGL 2-21 includes mild necrosis.			
* Spleen	[Fibroma TGLs = 2-21]	Leukemia Mononuclear	
* Stomach, Forestomach	[Leukemia Mononuclear TGLs = 6-6]	Edema Erosion Hyperplasia	Mild Minimal Mild
* Testes	Epithelium Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 3-7]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
 CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 42

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109256

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Minimal
* Nose	Goblet Cell	Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Hyperplasia	Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 42

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 109256

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Lymph Follic	Hyperplasia Pigmentation	Minimal Mild
[Hyperplasia TGLs = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-7]			

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 43

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 570
 HISTO: 109257

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Thyroid Gland			

OBSERVATIONS

* Brain		Compression	
[Compression TGLs = 5-1]			
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
[Hepatodiaphragmatic Nodule TGLs = 2-22]		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mediastinal	Hemorrhage	Marked
	Mediastinal	Hyperplasia	Lymphoid, Mild
[Hemorrhage TGLs = 3-3]			
[Hyperplasia TGLs = 3-3]			
* Mammary Gland	Duct	Ectasia	Moderate
		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 1-21]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 43

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 570
HISTO: 109257

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLs = 6-1]	Pars Distalis	Adenoma	
* Prostate	Epithelium	Hyperplasia Inflammation	Mild Chronic, Moderate
* Salivary Glands		Atrophy	Minimal
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: TGL 4=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 44

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 677
 HISTO: 109258

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Bone Marrow | * Epididymis | * Esophagus |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Parathyroid Gland | * Skin | * Thyroid Gland | * Trachea |

OBSERVATIONS

- | | | | |
|--------------------------------------|---------------------------------------|----------------------|----------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| * Eye | | Cataract | Minimal |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Mineralization | Minimal |
| * Liver | Bile Duct | Hyperplasia | Marked |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | Deep Cervical | Leukemia Mononuclear | |
| | | Leukemia Mononuclear | |
| Note: TGL 10-22 Axillary lymph node. | | | |
| | [Leukemia Mononuclear TGLs = 8-3] | | |
| | [Leukemia Mononuclear TGLs = 4-7] | | |
| | [Leukemia Mononuclear TGLs = 9-21] | | |
| | [Leukemia Mononuclear TGLs = 10-22] | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1-8] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 7-5] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 44

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 677
 HISTO: 109258

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland	Duct	Ectasia	Minimal
* Nose	Respirat Epith	Hyperplasia	Mild
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Intermed	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate
		Pigmentation	Mild
	[Hyperplasia TGLs = 11-1]		
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Germinal Epith	Atrophy	Mild
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-8]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 45

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109259

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Mammary Gland | * Parathyroid Gland | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Lymph Node, Mandibular

INSUFFICIENT TISSUE

- * Intestine Large, Rectum

OBSERVATIONS

- | | | | |
|--------------------------|--|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Mild |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | | Ito Cell Tumor Benign | |
| | [Hepatodiaphragmatic Nodule TGLs = 1-21] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Mild |
| * Nose | | Foreign Body | Mild |
| | Respirat Epith | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 45

TMT: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109259

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Inflammation	Chronic, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
[Adenoma TGLs = 2-1]		Adenoma	
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLs = 3-22]			
* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 4-7]			

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 46

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109260

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
		Hypertrophy	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
	[Basophilic Focus TGLs = 3-22]		
	[Clear Cell Focus TGLs = 3-22]		
* Pancreas		Atrophy	Minimal
	Acinus	Hyperplasia	Focal, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLs = 1-21, 4-23]		
* Spleen	Lymph Follic	Hyperplasia	Minimal
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 46

TMT: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109260

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLs = 2-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 47

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 716
 HISTO: 109261

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* 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
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Moderate
* Brain		Compression	
* Heart		Leukemia Mononuclear	
		Thrombosis	
	[Thrombosis TGLs = 7-12]		
* Kidney		Casts Protein	Minimal
		Infarct	Mild
		Nephropathy	Minimal
	[Infarct TGLs = 6-5]		
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Marked
* Lung	Alveolar Epith	Alveolar/Bronchiolar Adenoma	
		Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[Alveolar/Bronchiolar Adenoma TGLs = 8-23]		
	[Hyperplasia TGLs = 12-24]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 47

TMT: 1
DOSE: 0 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 716
HISTO: 109261

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 4-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland	Duct	Ectasia	Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
		Leukemia Mononuclear	
		Pigmentation	Minimal
[Adenoma	TGLs = 11-1]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma	TGLs = 9-21]		
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 5-6]		
* Stomach, Glandular		Ulcer	Moderate
[Ulcer	TGLs = 13-25]		
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma	TGLs = 3-7]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 48

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109262

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* 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	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy	Mild
		Cyst	
	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Cyst	
Note: Bony tissue present in Pars Distalis-artifact.			
* Salivary Glands		Atrophy	Minimal
* Skin	Subcut Tiss	Fibrosarcoma	
	[Fibrosarcoma TGLs = 1-21]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 2-7]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 49

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 634
 HISTO: 109263

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Thymus	* Trachea		

MISSING

* Intestine Small, Ileum	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Leukemia Mononuclear	Minimal Fatty, Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6-1, 7-1]		
* Harderian Gland		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
	[Leukemia Mononuclear TGLs = 4-6]		
* Lung		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Pancreatic		
	[Leukemia Mononuclear TGLs = 5-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 49

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 634
 HISTO: 109263

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Inflammation Atrophy Cyst	Chronic, Mild Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate	Epithelium	Leukemia Mononuclear Hyperplasia Inflammation	Minimal Chronic, Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6]		
* Stomach, Forestomach		Edema Hyperplasia Ulcer	Marked Marked Marked
	[Ulcer TGLs = 8-4]		
* Stomach, Glandular		Erosion	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma Leukemia Mononuclear	
	[Adenoma TGLs = 1-7]		
* Thyroid Gland		Degeneration	Cystic, Minimal
* Urinary Bladder		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-8]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
 CONTRIBUTORY CAUSE OF DEATH - Stomach, Forestomach Ulcer

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 50

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 659
 HISTO: 109264

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Thyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7-2]		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland	Duct	Ectasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 50

TMT: 1
 DOSE: 0 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 659
 HISTO: 109264

ORGAN AND ACCOUNTABLE SITE STATUS

Fibroadenoma

[Fibroadenoma TGLs = 2-21]

* Pancreas

Atrophy

Minimal

Cyst

* Pituitary Gland

Pars Distalis

Adenoma

Pigmentation

Mild

[Adenoma TGLs = 8-1]

* Prostate

Inflammation

Chronic, Mild

* Spleen

Hemorrhage

Moderate

Leukemia Mononuclear

Note: TFL 4-22 Hemorrhage corresponds to the gross lesion-laceration.

[Hemorrhage TGLs = 4-22]

[Leukemia Mononuclear TGLs = 3-22]

* Testes

Interstitial Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
 CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma
 - Spleen Hemorrhage

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 51

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 716
 HISTO: 109265

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
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Infarct	Moderate
		Mineralization	Mild
		Nephropathy	Minimal
		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy	Minimal
		Cyst	
Penis		Inflammation	Acute, Mild
		Hyperplasia	Focal, Moderate
* Pituitary Gland	Pars Distalis	Inflammation	Chronic, Mild
* Preputial Gland			

[Infarct TGLs = 5-22]

[Inflammation TGLs = 2-45]

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 51

TMT: 3

SEX: Male

DAY ON TEST: 716

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109265

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Subcut Tiss	Fibrosarcoma	
Note: TGL 1-21 Lesion included marked necrosis.			
[Fibrosarcoma TGLs = 1-21]			
* Spleen	Lymph Follic	Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Mild
		Pigmentation	Mild
[Hematopoietic Cell Proliferation TGLs = 4-6]			
[Hyperplasia TGLs = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 3-7]			

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 52

TMT: 3

SEX: Male

DAY ON TEST: 603

DOSE: 12.5 MG/KG

DISP: Natural Death

HISTO: 109266

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Trachea			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Thyroid Gland			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Minimal Fatty, Minimal
* Adrenal Medulla		Leukemia Mononuclear Hyperplasia Leukemia Mononuclear Pheochromocytoma Benign	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney	[Leukemia Mononuclear TGLs = 10-12]	Leukemia Mononuclear Mineralization	Mild
* Liver	[Leukemia Mononuclear TGLs = 5-5] Bile Duct	Hyperplasia Leukemia Mononuclear	Marked
* Lung	[Leukemia Mononuclear TGLs = 6-6]	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 11-2]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 52

TMT: 3

SEX: Male

DAY ON TEST: 603

DOSE: 12.5 MG/KG

DISP: Natural Death

HISTO: 109266

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 9-3]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 8-5]		
* Mammary Gland	Duct	Ectasia	Minimal
* Nose		Leukemia Mononuclear	
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Atrophy	Moderate
		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 3-6]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Ulcer	Minimal
* Stomach, Glandular		Erosion	Mild
		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
		Leukemia Mononuclear	
[Adenoma	TGLs = 1-7]		
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 53

TMT: 3

SEX: Male

DAY ON TEST: 477

DOSE: 12.5 MG/KG

DISP: Natural Death

HISTO: 109267

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
Lacrimal Gland	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Bone	Tibia	Lymphoma Malignant	
Note: Secondary Exostosis TGL 9 = 22,22.1			
[Lymphoma Malignant TGLs = 9-22, 22.1]			
* Bone Marrow		Lymphoma Malignant	
* Eye		Inflammation	Chronic, Mild
* Heart		Lymphoma Malignant	
[Lymphoma Malignant TGLs = 7-12]			
* Kidney		Lymphoma Malignant	
[Lymphoma Malignant TGLs = 2-5]			
* Liver	Hepatocyte	Clear Cell Focus	
[Clear Cell Focus TGLs = 5-21]			
[Vacuolization Cytoplasmic TGLs = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Lymphoma Malignant TGLs = 8-2]			
* Nose	Respirat Epith	Hyperplasia	Minimal
[Inflammation TGLs = 3-6]			
* Pancreas		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 53

TMT: 3

SEX: Male

DAY ON TEST: 477

DOSE: 12.5 MG/KG

DISP: Natural Death

HISTO: 109267

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Cyst	
* Prostate		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Seminal Vesicle		Lymphoma Malignant	
Skeletal Muscle		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 10-23]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Minimal
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Moderate
		Ulcer	Moderate
	[Ulcer TGLs = 6-4]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1-7]		
* Urinary Bladder		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH - Heart Lymphoma Malignant

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 54

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 519
 HISTO: 109268

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* 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	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Trachea	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Eye		Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Note: TGL 8-22 Abnormal fissures and lobulations are not routinely tabulated.			
	[Leukemia Mononuclear	TGLs = 6-6, 6-6-1]	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear	TGLs = 4-7]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Prostate	Epithelium	Hyperplasia	Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 54

TMT: 3

SEX: Male

DAY ON TEST: 519

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109268

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-21]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Hyperplasia TGLs = 9-23]		
	[Leukemia Mononuclear TGLs = 9-23]		
* Stomach, Glandular		Leukemia Mononuclear	
		Ulcer	Mild
	[Leukemia Mononuclear TGLs = 9-23]		
	[Ulcer TGLs = 9-23]		
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLs = 1-7]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
	[Adenoma TGLs = 7-3]		
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-8]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 55

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109269

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* 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	* Lymph Node, Mesenteric	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Minimal
		Mineralization	Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Minimal
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 55

TMT: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109269

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 3-1]			
* Prostate	Epithelium	Hyperplasia Inflammation	Minimal Chronic, Mild
* Seminal Vesicle		Adenoma	
Skeletal Muscle		Fibrosis	Moderate
[Fibrosis TGLs = 1-21]			
* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-7]			

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 56

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 662
 HISTO: 109270

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 12-1, 13-1]		
* Heart		Leukemia Mononuclear	
* Intestine Large, Colon		Edema	Mild
* Kidney		Casts Protein	Mild
		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Leukemia Mononuclear TGLs = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
		Leukemia Mononuclear	
		Leukemia Mononuclear	
		Leukemia Mononuclear	
	Lymph Node		
	Pancreatic		
	Mediastinal		
	Deep Cervical		
	[Leukemia Mononuclear TGLs = 6-7]		
	[Leukemia Mononuclear TGLs = 9-22]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 56

TMT: 3

SEX: Male

DAY ON TEST: 662

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109270

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 10-23]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 7-5]			
* Mammary Gland	Duct	Ectasia	Mild
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Mild
[Leukemia Mononuclear TGLs = 8-21]			
[Necrosis TGLs = 8-21]			
* Pancreas		Atrophy	Mild
		Cyst	
[Atrophy TGLs = 5-7]			
* Parathyroid Gland		Hyperplasia	Focal, Mild
* Pituitary Gland	Rathkes Cleft	Dilatation	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
[Dilatation TGLs = 11-1]			
[Hyperplasia TGLs = 11-1]			
[Leukemia Mononuclear TGLs = 11-1]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-6]			
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Mild
* Stomach, Glandular		Ulcer	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-7]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Stomach, Glandular Ulcer

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 57

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109271

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Carcinoma	
* Kidney		Casts Protein	Mild
		Mineralization	Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland	Duct	Ectasia	Mild
	[Ectasia TGLs = 1-8]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 2-21]		
* Nose		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 57

TMT: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109271

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Mild
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	[Adenoma TGLs = 5-1]		
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
	[Inflammation TGLs = 4-7-1]		
* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 3-7]		

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 58

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109272

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	
		Granular Cell Tumor Benign	
	[Compression TGLs = 8-1]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
* Pancreas		Atrophy	Mild
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 58

TMT: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109272

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	[Adenoma TGLs = 7-1] Epithelium	Hyperplasia Inflammation	Minimal Chronic, Mild
* Skin	[Inflammation TGLs = 6-7-1] Subcut Tiss	Fibroma	Multiple
* Spleen	[Fibroma TGLs = 1-21, 2-22]	Leukemia Mononuclear	
* Testes	[Leukemia Mononuclear TGLs = 3-6] Germinal Epith Interstit Cell	Atrophy Hyperplasia	Moderate Minimal

Animal Note: TGL 4=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 59

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109273

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Mild
	Epicardium	Inflammation	Minimal
* Kidney		Casts Protein	Minimal
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Minimal
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 59

TMT: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109273

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Cyst	
* Spleen	Lymph Follic	Adenoma	
		Hyperplasia	Mild
		Pigmentation	Mild
* Stomach, Glandular		Cyst	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1-7]		
* Thyroid Gland		Ultimobranchial Cyst	Minimal

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 60

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109274

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* 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
* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Mild
* Eye		Cataract	Marked
	Retina	Degeneration	Moderate
		Edema	Mild
Note: Eye-marked cataract with lysis and mineralization.			
		[Cataract TGLs = 6-25]	
		[Degeneration TGLs = 6-25]	
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Cyst	
		Nephropathy	Minimal
		[Cyst TGLs = 3-5, 3-24]	
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 60

TMT: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109274

ORGAN AND ACCOUNTABLE SITE STATUS

Infiltration Cellular

Histiocyte, Minimal

Note: T GL 4-23 Alveolar/Bronchiolar adenoma with focus of ossous metaplasia.

[Alveolar/Bronchiolar Adenoma TGLs = 4-23]

* Nose

Inflammation

Chronic, Minimal

* Pancreas

Atrophy

Mild

* Skin

Basal Cell Adenoma

Subcut Tiss

Lipoma

[Basal Cell Adenoma TGLs = 2-22]

[Lipoma TGLs = 1-21]

* Spleen

Pigmentation

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLs = 5-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 61

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109275

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Minimal
* Brain		Pigmentation	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Mild
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Metaplasia	Osseous, Mild
* Mammary Gland	Duct	Ectasia	Moderate
	[Ectasia TGLs = 1-8]		
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3-1]		
* Preputial Gland		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 61

TMT: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109275

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Marked
* Spleen		Pigmentation	Minimal
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLs = 2-7]			

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 62

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109276

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|--------------------------|---------------------------|
| * Bone | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Nose |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|--|-----------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Marked |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Compression | |
| | [Compression TGLs = 10-1] | | |
| * Eye | | | |
| | Note: Eye-retina is bilaterally detached (artifact). | | |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Kidney | | Casts Protein | Mild |
| | | Leukemia Mononuclear | |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Marked |
| | | Leukemia Mononuclear | |
| | Kupffer Cell | Pigmentation | Minimal |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 7-2] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 62

TMT: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109276

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Pancreatic	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 5-23]		
[Leukemia Mononuclear	TGLs = 8-3]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 6-5]		
* Mammary Gland	Duct	Ectasia	Mild
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma	TGLs = 9-1]		
[Leukemia Mononuclear	TGLs = 9-1]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Skin	Hair Follicle	Cyst	
Note: TGL 1-21 Cyst had ruptured and was surrounded by moderate chronic inflammation. Epithelium was mildly ulcerated with hemorrhage.			
[Cyst	TGLs = 1-21]		
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 3-22]		
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma	TGLs = 2-7]		
* Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 63

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109277

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* 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	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Mammary Gland	Duct	Ectasia	Minimal
* Nose		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3-1]		
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLs = 1-21]		
* Spleen	Lymph Follic	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 63

TMT: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109277

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 2-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 64

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 677
 HISTO: 109278

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 4-22]		
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Intermed	Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 64

TMT: 3

SEX: Male

DAY ON TEST: 677

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109278

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Hyperplasia Pigmentation	Focal, Mild Mild
	[Angiectasis TGLs = 7-1] [Hyperplasia TGLs = 7-1] [Pigmentation TGLs = 7-1]		
* Skin	[Keratoacanthoma TGLs = 1-21]	Keratoacanthoma	
* Spleen	[Leukemia Mononuclear TGLs = 3-6]	Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	Note: TGL- 2 is located on slide 7-2. [Adenoma TGLs = 2-7]		
* Thyroid Gland		Degeneration	Cystic, Minimal
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 65

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 12.5 MG/KG

DISP: Natural Death

HISTO: 109279

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 4-1]			
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Spleen		Fibrosis	Moderate
		Necrosis	Mild
		Pigmentation	Minimal
[Fibrosis TGLs = 2-21]			
* Stomach, Glandular		Erosion	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	

[Adenoma TGLs = 1-7]
PRIMARY CAUSE OF DEATH - Liver Centrilobular Necrosis

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 66

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109280

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * 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 | * Lymph Node, Mesenteric | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | | Degeneration | Fatty, Moderate |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Casts Protein | Mild |
| | | Mineralization | Mild |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | Duct | Ectasia | Minimal |
| * Nose | | Foreign Body | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Pancreas | | Cyst | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3-1] | | |
| * Prostate | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 66

TMT: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109280

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Pigmentation

Mild

* Testes

Interstit Cell

Adenoma

[Adenoma TGLs = 1-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 67

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 299
 HISTO: 109281

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone		Osteosarcoma	
Note: Bone-vertebra, Osteosarcoma slide # 41			
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Necrosis	Focal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
Spinal Cord			
Note: The over lying Chordoma was causing causing marked compression of the spinal cord.			
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal
* Urinary Bladder		Atrophy	Moderate
		Inflammation	Chronic, Mild

[Atrophy TGLs = 1-8]

[Inflammation TGLs = 2-8]

PRIMARY CAUSE OF DEATH - Bone Osteosarcoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 68

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109282

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|--|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Casts Protein | Minimal |
| | | Cyst | |
| | Transit Epithe | Hyperplasia | Minimal |
| | | Mineralization | Mild |
| | | Nephropathy | Mild |
| | [Cyst TGLs = 3-23] | | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic, Mild |
| | | Metaplasia | Osseous, Minimal |
| | Note: Lung-Chronic inflammation included multinucleated giant cells with intracytoplasmic refractile material. | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Marked |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 68

TMT: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109282

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland	Duct	Ectasia	Minimal
* Nose		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
Skeletal Muscle		Fibrosis	Marked
[Fibrosis TGLs = 4-22]			
* Skin		Basal Cell Carcinoma	
[Basal Cell Carcinoma TGLs = 1-21]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLs = 2-7]			
* Thymus		Cyst	
* Thyroid Gland		Degeneration	Cystic, Minimal

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 69

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109283

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6]	Vacuolization Cytoplasmic	Focal, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy	Mild
		Cyst	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 69

TMT: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109283

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma
[Adenoma TGLs = 4-1]		
* Preputial Gland		Leukemia Mononuclear
* Spleen		Leukemia Mononuclear
[Leukemia Mononuclear TGLs = 2-6]		
* Testes	Bilateral, Interstit Cell	Adenoma
[Adenoma TGLs = 1-7]		

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 70

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 716
 HISTO: 109284

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Thyroid Gland	* Trachea

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Hyperplasia	Focal, Minimal
		Necrosis	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Harderian Gland		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Necrosis	Minimal
	Note: Ileum-Single cell necrosis of the villar tips.		
* Kidney		Casts Protein	Mild
		Hydronephrosis	Moderate
		Inflammation	Suppurative, Marked
		Mineralization	Minimal
		Nephropathy	Moderate
	Note: Renal lesions are bilateral.		
	[Hydronephrosis TGLs = 5-5]		
	[Inflammation TGLs = 6-5,6-5-1]		
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
* Mammary Gland	Duct	Ectasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 70

TMT: 3

SEX: Male

DAY ON TEST: 716

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109284

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Mild
* Pituitary Gland		Pigmentation	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic, Marked
		Mineralization	Mild
		Necrosis	Moderate
	[Hyperplasia TGLs = 4-7-1]		
	[Inflammation TGLs = 4-7-1]		
	[Necrosis TGLs = 4-7-1]		
* Seminal Vesicle		Hyperplasia	Mild
		Inflammation	Chronic, Moderate
		Necrosis	Moderate
* Spleen	Lymph Follic	Atrophy	Minimal
		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
* Stomach, Glandular		Ulcer	Moderate
	Note: TGL 9-22 This lesion was also observed on slide # 4, with greater severity than the ulceration on slide # 22.		
	[Ulcer TGLs = 9-22]		
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLs = 1-7]		
* Urinary Bladder		Inflammation	Acute, Marked
		Necrosis	Marked
	[Inflammation TGLs = 2-8]		
	[Necrosis TGLs = 2-8]		

PRIMARY CAUSE OF DEATH - UNCERTAIN
 CONTRIBUTORY CAUSE OF DEATH - Kidney Inflammation
 - Prostate Inflammation
 - Urinary Bladder Inflammation
 - Urinary Bladder Necrosis

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 71

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 708
 HISTO: 109285

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* 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
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Thymus
--------------------------	----------

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 11-1]		
* Heart		Leukemia Mononuclear	
* Kidney		Casts Protein	Minimal
		Leukemia Mononuclear	
		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Kupffer Cell	Pigmentation	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Leukemia Mononuclear TGLs = 14-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 71

TMT: 3

SEX: Male

DAY ON TEST: 708

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109285

ORGAN AND ACCOUNTABLE SITE STATUS

	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 10-3]		
	[Leukemia Mononuclear TGLs = 6-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 9-5]		
* Mammary Gland	Duct	Ectasia	Mild
* Nose		Foreign Body	Minimal
* Pancreas		Cyst	
		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Marked
		Necrosis	Marked
	[Inflammation TGLs = 3-24]		
	[Necrosis TGLs = 3-24]		
* Skin	Subcut Tiss	Fibroma	Multiple
	[Fibroma TGLs = 1-21, 2-22, 13-26]		
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
	[Fibrosis TGLs = 8-23]		
	[Leukemia Mononuclear TGLs = 7-25]		
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Mild
* Stomach, Glandular		Edema	Moderate
		Ulcer	Mild
	[Ulcer TGLs = 12-4]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 4-7]		
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
 CONTRIBUTORY CAUSE OF DEATH - Preputial Gland Inflammation
 - Preputial Gland Necrosis

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 72

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 617
 HISTO: 109286

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Rectum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Thyroid Gland	* Trachea	

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mesenteric
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OBSERVATIONS

* Adrenal Medulla		Lymphoma Malignant	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Lymphoma Malignant	
* Intestine Large, Colon		Lymphoma Malignant	
* Intestine Small, Duodenum		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 16-4]		
* Intestine Small, Ileum		Lymphoma Malignant	
* Intestine Small, Jejunum		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 6-5]	Mineralization	Minimal
* Liver		Basophilic Focus	
		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 9-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 19-2]		
Mesentery		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 7-24, 8-25]		
* Nose		Foreign Body	Moderate
	Respirat Epith	Hyperplasia	Mild
	Goblet Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 72

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 617
 HISTO: 109286

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Inflammation	Chronic, Mild
		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 5-7]		
* Pituitary Gland		Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Inflammation	Chronic, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Seminal Vesicle		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 12-7]		
Skeletal Muscle		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 2-22, 3-23, 11-29]		
* Skin		Fibroma	
	Subcut Tiss	Lymphoma Malignant	
	[Fibroma TGLs = 20-30]		
	[Lymphoma Malignant TGLs = 13-26, 14-27, 15-28]		
* Spleen		Hematopoietic Cell Proliferation	Marked
		Lymphoma Malignant	
* Stomach, Forestomach		Hyperplasia	Minimal
	Epithelium	Lymphoma Malignant	
* Stomach, Glandular		Lymphoma Malignant	
* Testes		Adenoma	
	Bilateral, Interstit Cell		
	[Adenoma TGLs = 4-7]		
* Thymus		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 18-3]		
Tissue NOS		Lymphoma Malignant	
	[Lymphoma Malignant TGLs = 1-21]		
* Urinary Bladder		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH - Skin Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 73

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109287

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Parathyroid Gland * Preputial Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Marked
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Eye	Bilateral	Cataract	Minimal
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Cyst	
		Leukemia Mononuclear	
		Mineralization	Mild
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 73

TMT: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109287

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 8-3]		
[Leukemia Mononuclear	TGLs = 2-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 4-5]		
* Mammary Gland	Duct	Ectasia	Minimal
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Mild
[Leukemia Mononuclear	TGLs = 1-21, 6-22]		
[Necrosis	TGLs = 1-21, 6-22]		
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Pigmentation	Minimal
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 3-23]		
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland		Degeneration	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 74

TMT: 3

SEX: Male

DAY ON TEST: 610

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109288

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
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Nose		Foreign Body	Mild
Oral Mucosa	Pharyngeal	Squamous Cell Carcinoma	
	[Squamous Cell Carcinoma TGLs = 4-23]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
		Keratoacanthoma	
	[Fibroma TGLs = 1-21]		
	[Keratoacanthoma TGLs = 2-22]		
* Spleen	Lymph Follic	Hyperplasia	Minimal
* Stomach, Glandular		Erosion	Mild
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLs = 3-7]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 74

TMT: 3

SEX: Male

DAY ON TEST: 610

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109288

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma
CONTRIBUTORY CAUSE OF DEATH - Oral Mucosa Pharyngeal Squamous Cell Carcinoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 75

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109289

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Thymus
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INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy	Moderate
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 75

TMT: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109289

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	[Adenoma TGLs = 4-1] Pars Distalis Epithelium	Cyst Hyperplasia Inflammation	Mild Chronic, Mild
* Skin	Subcut Tiss	Basal Cell Adenoma Fibroma	
* Spleen	[Basal Cell Adenoma TGLs = 1-21] [Fibroma TGLs = 3-22]		
* Testes	Bilateral, Interstit Cell	Pigmentation Adenoma	Minimal
* Thyroid Gland	[Adenoma TGLs = 2-7] C Cell	Hyperplasia	Marked

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 76

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 677
 HISTO: 109290

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * 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 | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | | | |

MISSING

- * Lymph Node, Mandibular

INSUFFICIENT TISSUE

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|---|-----------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| * Bone Marrow | | Leukemia Mononuclear | |
| | | Myelofibrosis | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| | [Thrombosis TGLs = 5-12] | Thrombosis | |
| * Kidney | | Casts Protein | Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | Kupffer Cell | Leukemia Mononuclear | |
| | | Pigmentation | Mild |
| | Note: TGL 9-21 Abnormal fissures and lobulations are not routinely tabulated. | | |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 76

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 677
 HISTO: 109290

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Respirat Epith	Hyperplasia Inflammation	Mild Chronic, Moderate
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis Rathkes Cleft	Leukemia Mononuclear Adenoma Dilatation Leukemia Mononuclear	Minimal
	[Adenoma TGLs = 8-1]		
	[Leukemia Mononuclear TGLs = 8-1]		
* Prostate		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6]		
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLs = 2-7]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
 CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 77

TMT: 3

SEX: Male

DAY ON TEST: 626

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109291

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node

Note: TGL 7-7 Pancreatic lymph node not present on slide.

* Lymph Node, Mesenteric		Necrosis	Mild
* Mammary Gland	Duct	Ectasia	Mild
* Pancreas		Atrophy	Marked
		Necrosis	Moderate
	[Atrophy TGLs = 5-7]		
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Intermed	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Minimal
		Pigmentation	Mild
	[Angiectasis TGLs = 10-1]		
	[Hyperplasia TGLs = 10-1]		
	[Pigmentation TGLs = 10-1]		
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Marked
* Seminal Vesicle		Inflammation	Acute, Marked
* Spleen		Fibrosis	Marked
	[Fibrosis TGLs = 4-6]		
* Stomach, Glandular		Ulcer	Moderate
	[Ulcer TGLs = 13-4]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 3-7]		
* Thymus		Fibrosis	Moderate

PRIMARY CAUSE OF DEATH - Heart Thrombosis
 CONTRIBUTORY CAUSE OF DEATH - Pancreas Atrophy
 - Stomach, Glandular Ulcer

Animal Note: TGLs 11,12=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 78

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109292

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|----------------------|----------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Adrenal Medulla | | Infiltration Cellular | Lymphocyte, Minimal |
| * Eye | | Cataract | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Carcinoma | |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | [Hyperplasia TGLs = 2-6] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Pancreas | | Atrophy | Minimal |
| * Prostate | Epithelium | Hyperplasia | Mild |
| * Spleen | | Pigmentation | Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 1-7] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 79

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109293

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|------------------------|----------------------------|-----------------------|---------------------|
| * Adrenal Medulla | | Infiltration Cellular | Lymphocyte, Minimal |
| * Eye | | Cataract | Minimal |
| * Harderian Gland | | Inflammation | Chronic, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Casts Protein | Minimal |
| | | Mineralization | Mild |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | [Hyperplasia TGLs = 2-6] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | Duct | Ectasia | Minimal |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Spleen | | Pigmentation | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 79

TMT: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109293

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 1-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 80

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 610
 HISTO: 109294

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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 |
| * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland | * Pituitary Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|----------------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Bone | Maxilla | Squamous Cell Carcinoma | Metastatic (Skin) |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Squamous Cell Carcinoma | Metastatic (Skin) |
| * Mammary Gland | Duct | Ectasia | Moderate |
| Mesentery | | Accessory Spleen | |
| | Fat | Necrosis | Minimal |
| | [Accessory Spleen TGLs = 4-22] | | |
| | [Necrosis TGLs = 3-21] | | |
| * Pancreas | | Atrophy | Minimal |
| | | Cyst | |
| * Preputial Gland | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 80

TMT: 3

SEX: Male

DAY ON TEST: 610

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109294

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin			Squamous Cell Carcinoma	
	[Squamous Cell Carcinoma	TGLs = 5-23]		
* Spleen		Lymph Follic	Hyperplasia	Mild
* Testes		Bilateral, Interstit Cell	Adenoma	
	[Adenoma	TGLs = 2-7]		

PRIMARY CAUSE OF DEATH - Skin Squamous Cell Carcinoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 81

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 626
 HISTO: 109295

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Mammary Gland
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Trachea		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone	Femur	Osteopetrosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Mild
* Brain		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Marked
	Hepatocyte	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7-6]	Vacuolization Cytoplasmic	Marked
* Lung		Infiltration Cellular	Histiocyte, Minimal
	[Leukemia Mononuclear TGLs = 10-2]	Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

Note: TGL 4-7 and 8-7 are duplicate entries for the same tissue.

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 81

TMT: 3

SEX: Male

DAY ON TEST: 626

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109295

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear	TGLs = 9-3]		
[Leukemia Mononuclear	TGLs = 4-7, 8-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Mild
[Leukemia Mononuclear	TGLs = 6-21]		
[Necrosis	TGLs = 6-21]		
* Pancreas		Atrophy	Mild
		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Leukemia Mononuclear	
* Skin	Subcut Tiss	Fibroma	
[Fibroma	TGLs = 2-8]		
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 5-22]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Leukemia Mononuclear	
* Stomach, Glandular		Erosion	Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma	TGLs = 3-7]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 82

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 716
 HISTO: 109296

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Parathyroid Gland	* Seminal Vesicle
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Moderate
* Adrenal Medulla		Hyperplasia	Moderate
* Eye	Bilateral	Cataract	Mild
		Hemorrhage	Moderate
		Inflammation	Chronic, Moderate
	[Hemorrhage TGLs = 12-44]		
* Harderian Gland		Pigmentation	Marked
	[Pigmentation TGLs = 11-12]		
* Kidney		Casts Protein	Minimal
		Inflammation	Suppurative, Minimal
		Nephropathy	Mild
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
	Lymph Node	Hyperplasia	Lymphoid, Marked
	[Hyperplasia TGLs = 8-3]		
* Mammary Gland	Duct	Ectasia	Mild
	[Ectasia TGLs = 1-8]		
Mesentery	Fat	Necrosis	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 82

TMT: 3

SEX: Male

DAY ON TEST: 716

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109296

ORGAN AND ACCOUNTABLE SITE STATUS

	[Necrosis TGLs = 5-22]		
* Nose		Inflammation	Chronic, Minimal
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 10-1]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Salivary Glands		Atrophy	Moderate
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLs = 2-21]		
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
* Stomach, Glandular		Erosion	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 3-7]		
* Thyroid Gland		Degeneration	Cystic, Minimal
Zymbal's Gland		Carcinoma	
Note: TGL 9-23 Neoplasm had a squamous differentiation.			
	[Carcinoma TGLs = 9-23]		

PRIMARY CAUSE OF DEATH - Zymbal's Gland Carcinoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 83

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 610
 HISTO: 109297

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
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation	TGLs = 3-6]	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1-7]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 84

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109298

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
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Moderate
		Mineralization	Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
	[Mixed Cell Focus TGLs = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 84

TMT: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109298

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-7]			
* Thyroid Gland	Follicular Cel C Cell	Hyperplasia Hyperplasia	Focal, Moderate Moderate

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 85

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 599
 HISTO: 109299

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
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Prostate	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Mild
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
	Lymph Node	Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLs = 5-7]		
* Pancreas	Pancreatic	Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Intermed	Hyperplasia	Focal, Minimal
* Preputial Gland		Adenoma	
	[Adenoma TGLs = 3-22]		
* Salivary Glands		Atrophy	Minimal
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 1-21]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 85

TMT: 3

SEX: Male

DAY ON TEST: 599

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109299

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Marked
	Lymph Follic	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 4-7]			

PRIMARY CAUSE OF DEATH - Preputial Gland Adenoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 86

TMT: 3

SEX: Male

DAY ON TEST: 716

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109300

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* 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	* Nose	* Parathyroid Gland
* Prostate	* Seminal Vesicle	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Minimal Fatty, Moderate
* Adrenal Medulla		Leukemia Mononuclear Hyperplasia	Minimal
* Heart		Leukemia Mononuclear Thrombosis	
* Kidney		Leukemia Mononuclear Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
	Hepatocyte	Leukemia Mononuclear Vacuolization Cytoplasmic	Moderate
	[Leukemia Mononuclear TGLs = 7-6]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-5]		
* Mammary Gland	Duct	Ectasia	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 86

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 716
 HISTO: 109300

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Leukemia Mononuclear	
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLs = 1-21]		
* Spleen		Infarct	Marked
	[Leukemia Mononuclear TGLs = 4-22]	Leukemia Mononuclear	
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Ulcer TGLs = 8-4]	Ulcer	Marked
* Stomach, Glandular		Edema	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 3-7]		
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 87

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109301

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* 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	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland	Duct	Ectasia	Mild
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2-1]		
* Prostate		Inflammation	Chronic, Minimal
* Spleen	Lymph Follic	Hyperplasia	Minimal
		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 87

TMT: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109301

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 1-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 88

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 702
 HISTO: 109302

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * 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 | * Lymph Node, Mesenteric | * Nose |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|----------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Mild |
| * Adrenal Medulla | | Hyperplasia | Marked |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Casts Protein | Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | [Hepatodiaphragmatic Nodule | | |
| * Lung | TGLs = 3-22] | Infiltration Cellular | Histiocyte, Minimal |
| | | Metaplasia | Osseous, Minimal |
| * Mammary Gland | Duct | Ectasia | Minimal |
| * Pancreas | | Cyst | |
| | Acinus | Hyperplasia | Focal, Minimal |
| * Salivary Glands | | Atrophy | Mild |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLs = 1-21] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 88

TMT: 3

SEX: Male

DAY ON TEST: 702

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109302

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Minimal
	Lymph Follic	Hyperplasia	Mild
		Pigmentation	Minimal
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLs = 2-7]		
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 89

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109303

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Nose	* Parathyroid Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Mild
		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	
	[Hepatodiaphragmatic Nodule TGLs = 4-21]		
	[Leukemia Mononuclear TGLs = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-3]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland	Duct	Ectasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 89

TMT: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109303

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma Pigmentation	Mild
* Prostate		Leukemia Mononuclear	
* Salivary Glands		Atrophy	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1-7]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Ultimobranchial Cyst	Minimal

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 90

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 556
 HISTO: 109304

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone | * Epididymis | * Esophagus | * Eye |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Nose |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|-------------------------------------|---------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| * Harderian Gland | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| | | Thrombosis | |
| * Kidney | | Leukemia Mononuclear | |
| | | Mineralization | Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Leukemia Mononuclear | |
| | | Vacuolization Cytoplasmic | Moderate |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 7-2] | | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-3] | | |
| | [Leukemia Mononuclear TGLs = 1-7] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 90

TMT: 3

SEX: Male

DAY ON TEST: 556

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109304

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-5]		
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Cyst	
		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Skin		Hyperkeratosis	Marked
Note: TGL 8-21 Mass consists of coccygeal vertebra covered by skin with adnexia and markedly hyperkeratotic epidermis.			
	[Hyperkeratosis TGLs = 8-21]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-22]		
* Stomach, Glandular		Inflammation	Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 91

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109305

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* 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	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Mild
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Leukemia Mononuclear	
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 91

TMT: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109305

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLs = 1-21]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-7]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
	C Cell	Hyperplasia	Moderate

Animal Note: TGL 4=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 92

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 689
 HISTO: 109306

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* 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
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow	Bilateral	Leukemia Mononuclear	
* Brain		Pheochromocytoma Benign	
* Heart		Leukemia Mononuclear	Mild
* Kidney		Myelofibrosis	
		Leukemia Mononuclear	Minimal
		Cardiomyopathy	
		Leukemia Mononuclear	Minimal
		Casts Protein	
		Leukemia Mononuclear	Minimal
		Mineralization	
		Nephropathy	Mild
* Liver		Degeneration	Cystic, Moderate
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
		Metaplasia	Osseous, Mild
	[Leukemia Mononuclear TGLs = 8-2]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 92

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 689
 HISTO: 109306

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Deep Cervical	Leukemia Mononuclear	
Note: TGL 2-7 Lesion included marked thrombosis.			
	[Leukemia Mononuclear TGLs = 7-22]		
	[Leukemia Mononuclear TGLs = 2-7]		
	[Leukemia Mononuclear TGLs = 9-23]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-5]		
* Mammary Gland	Duct	Ectasia	Mild
* Pancreas		Atrophy	Mild
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Mild
	[Adenoma TGLs = 10-1]	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 10-1]		
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1-21]		
* Testes	Interstit Cell	Hyperplasia	Mild
* Thymus		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6-22]		
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 93

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109307

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Preputial Gland
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Compression	
	[Compression TGLs = 4-1]		
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Moderate
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Marked
	[Ectasia TGLs = 1-8, 2-21]		
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5-1]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 93

TMT: 3
DOSE: 12.5 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 109307

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia Inflammation	Mild Chronic, Marked
* Salivary Glands		Inflammation	Chronic, Minimal
* Skin		Cyst Epithelial Inclusion	
	[Cyst Epithelial Inclusion TGLs = 3-22]		
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 6-7]		

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 94

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109308

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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	* Lymph Node, Mesenteric
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Carcinoma	
		Casts Protein	Minimal
		Nephropathy	Mild
	[Carcinoma TGLs = 4-22]		
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
	[Eosinophilic Focus TGLs = 6-23]		
	[Mixed Cell Focus TGLs = 6-23]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Minimal
* Nose		Inflammation	Chronic, Minimal
* Pancreas		Cyst	
* Pituitary Gland	Pars Intermed	Angiectasis	Moderate
	Rathkes Cleft	Dilatation	Mild
	Pars Distalis	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 94

TMT: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109308

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLs = 5-1]			
[Dilatation TGLs = 5-1]			
* Preputial Gland		Inflammation	Chronic, Mild
Note: Preputial gland, inflammation- lesion includes hair shaft foreign bodies.			
* Skin		Hyperkeratosis	Mild
[Hyperkeratosis TGLs = 2-21]			
* Spleen	Lymph Follic	Hyperplasia	Minimal
		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 3-7]			
* Thyroid Gland	C Cell	Hyperplasia	Marked

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 95

TMT: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109309

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* 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	* Nose	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Mild
		Mineralization	Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
	[Clear Cell Focus TGLs = 6-22]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
		Metaplasia	Osseous, Minimal
* Lymph Node, Mesenteric		Ectasia	Marked
	[Ectasia TGLs = 3-5]		
* Mammary Gland	Duct	Ectasia	Mild
* Pancreas		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 95

TMT: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109309

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLs = 5-21]			
* Spleen	Lymph Follic	Hyperplasia	Mild
[Hyperplasia TGLs = 2-6]		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-7]			
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLs = 4-3]			

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 96

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109310

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Epididymis		Granuloma Sperm	Mild
* Harderian Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Angiectasis	Moderate
* Pancreas		Atrophy	Moderate
		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen	Lymph Follic	Hyperplasia	Mild
		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLs = 1-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 97

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 702
 HISTO: 109311

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
	[Leukemia Mononuclear TGLs = 3-6]	Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
	[Leukemia Mononuclear TGLs = 6-2]	Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-5]		
* Mammary Gland	Duct	Ectasia	Mild
* Pancreas		Atrophy	Marked
		Cyst	
* Pituitary Gland	Pars Intermed	Angiectasis	Moderate
	[Angiectasis TGLs = 7-1]	Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 97

TMT: 3

SEX: Male

DAY ON TEST: 702

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109311

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Inflammation	Chronic, Minimal
	[Leukemia Mononuclear TGLs = 2-6]	Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Germinal Epith	Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 98

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109312

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

INSUFFICIENT TISSUE

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------|-----------|---------------------------|---------------------|
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Harderian Gland | | Inflammation | Chronic, Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Mild |
| Mesentery | Fat | Necrosis | Mild |
| | | | |
| [Necrosis TGLs = 3-21] | | | |
| * Pancreas | | Cyst | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Skin | | Cyst Epithelial Inclusion | |
| | | Hyperkeratosis | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 98

TMT: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109312

ORGAN AND ACCOUNTABLE SITE STATUS

	Epidermis	Hyperplasia	Mild
	[Cyst Epithelial Inclusion TGLs = 1-22]		
	[Hyperkeratosis TGLs = 1-22]		
	[Hyperplasia TGLs = 1-22]		
* Spleen	Lymph Follic	Hyperplasia	Minimal
		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 2-7]		

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 99

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109313

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* 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	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-6]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-7]		
* Mammary Gland	Duct	Ectasia	Mild
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 2-21]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6-1]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 99

TMT: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109313

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

[Leukemia Mononuclear TGLs = 3-6]

Leukemia Mononuclear

* Stomach, Glandular

Erosion

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLs = 1-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 100

TMT: 3
 DOSE: 12.5 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 668
 HISTO: 109314

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Necrosis	Minimal
* Brain		Compression	
	[Compression TGLs = 3-1]		
* Heart		Cardiomyopathy	Mild
* Liver		Degeneration	Cystic, Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
	[Hepatocellular Adenoma TGLs = 2-21]		
* Lung		Inflammation	Chronic, Mild
	[Inflammation TGLs = 5-22]		
* Mammary Gland	Duct	Ectasia	Mild
	[Ectasia TGLs = 1-8]		
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4-1]		
* Preputial Gland		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 100

TMT: 3

SEX: Male

DAY ON TEST: 668

DOSE: 12.5 MG/KG

DISP: Natural Death

HISTO: 109314

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Minimal
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Interstit Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 101

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 500
 HISTO: 109315

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 |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|----------------|-----------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Mild |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mesenteric | | Hemorrhage | Minimal |
| * Mammary Gland | Duct | Ectasia | Minimal |
| * Nose | | Foreign Body | Minimal |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic, Mild |
| * Pancreas | | Atrophy | Moderate |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | Epithelium | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Mild |
| * Spleen | | Pigmentation | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 101

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 500
HISTO: 109315

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Hyperplasia	Minimal
Zymbal's Gland		Carcinoma	
[Carcinoma TGLs = 1-21]			

PRIMARY CAUSE OF DEATH - Zymbal's Gland Carcinoma

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 102

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 270
HISTO: 109316

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Rectum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
--------------------------	-----------------------------	--------------------------	----------------------------

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Necrosis	Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	[Hepatodiaphragmatic Nodule TGLs = 3-21, 4-22]		
* Prostate		Necrosis	Marked
	Note: TGL 1-7-1 includes marked necrosis, thrombosis, acute inflammation, edema, hemorrhage, and intral-lesional bacteria.		
	[Necrosis TGLs = 1-7-1]		
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 5,6=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 103

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 635
 HISTO: 109317

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Minimal
		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	[Hepatodiaphragmatic Nodule TGLs = 3-21]		
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Metaplasia	Osseous, Mild
* Mammary Gland	Duct	Ectasia	Mild
* Pancreas		Atrophy	Minimal
		Cyst	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 103

TMT: 5

SEX: Male

DAY ON TEST: 635

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 109317

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLs = 4-1]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Mild
* Testes [Adenoma TGLs = 1-7]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: TGL 2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 104

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109318

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * 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 | * Lung | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|---|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| * Lymph Node, Mesenteric | | Hemorrhage | Mild |
| * Mammary Gland | Duct | Ectasia | Mild |
| * Salivary Glands | | Atrophy | Minimal |
| * Skin | | Cyst Epithelial Inclusion | |
| | [Cyst Epithelial Inclusion TGLs = 2-21] | | |
| * Spleen | | Pigmentation | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 1-7] | | |
| * Thyroid Gland | | Degeneration | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 105

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 655
HISTO: 109319

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Islets, Pancreatic	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6-10]		
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6-10]		
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7-1]		
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 105

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 655
 HISTO: 109319

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 3-5]			
* Mammary Gland	Duct	Ectasia	Minimal
* Nose		Leukemia Mononuclear	
* Pancreas		Atrophy	Mild
* Pituitary Gland		Leukemia Mononuclear	
		Pigmentation	Moderate
[Leukemia Mononuclear TGLs = 5-1]			
* Preputial Gland		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	
		Necrosis	Moderate
[Leukemia Mononuclear TGLs = 1-21, 2-21]			
[Necrosis TGLs = 2-21]			
* Stomach, Glandular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 8-22]			
* Testes	Interstit Cell	Adenoma	
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 106

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109320

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * 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 | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Seminal Vesicle | * Stomach, Forestomach | * Trachea | * Urinary Bladder |

MISSING

- * Lymph Node, Mandibular

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- | | | | |
|----------------------------|---------------|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | | Degeneration | Fatty, Mild |
| | | Hyperplasia | Focal, Marked |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Mild |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| Lymph Node | Mediastinal | Hyperplasia | Lymphoid, Mild |
| [Hyperplasia TGLs = 3-3] | | | |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Cyst | |
| * Salivary Glands | | Atrophy | Mild |
| | | Schwannoma Malignant | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 106

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109320

ORGAN AND ACCOUNTABLE SITE STATUS

[Schwannoma Malignant TGLs = 1-21,1-21-1]
* Skin Subcut Tiss Fibroma
Note: TGL 5-22 This lesion is atypical with low cellularity and less compaction of collagen fibers (resembles a collagen nevus).
[Fibroma TGLs = 5-22]
* Spleen Lymph Follic Hyperplasia Mild
Pigmentation Minimal
[Hyperplasia TGLs = 4-6]
* Stomach, Glandular Erosion Minimal
* Testes Bilateral, Interstit Cell Adenoma
[Adenoma TGLs = 6-6]
* Thyroid Gland C Cell Adenoma
Ultimobranchial Cyst Minimal

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 107

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 677
 HISTO: 109321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Stomach, Glandular	* Thyroid Gland		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Leukemia Mononuclear	
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Leukemia Mononuclear	
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Foreign Body	Minimal
		Inflammation	Chronic, Marked
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 107

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 677
HISTO: 109321

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 4-1]		
* Preputial Gland	Inflammation	Chronic, Mild
* Prostate	Inflammation	Chronic, Mild
* Spleen	Leukemia Mononuclear	
	Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 2-6]		
* Stomach, Forestomach	Epithelium	Minimal
* Testes	Bilateral, Interstit Cell	
[Adenoma TGLs = 1-7]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 108

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109322

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Minimal
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
	[Hyperplasia TGLs = 3-21]		
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy	Mild
		Cyst	
* Prostate		Inflammation	Chronic, Minimal
* Salivary Glands		Atrophy	Minimal
* Spleen	Lymph Follic	Hyperplasia	Minimal
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 108

TMT: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109322

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLs = 2-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 109

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109323

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
	[Pheochromocytoma Malignant TGLs = 4-10]		
* Brain		Compression	
	[Compression TGLs = 7-1]		
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Mineralization	Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Hyperplasia	Mild
	[Hyperplasia TGLs = 5-21]		
* Mammary Gland		Ectasia	Moderate
	[Ectasia TGLs = 1-8]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland		Adenoma	
	[Adenoma TGLs = 8-1]		
* Preputial Gland		Hyperplasia	Moderate
* Prostate		Hyperplasia	Minimal
	Epithelium	Inflammation	Chronic, Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 109

TMT: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109323

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLs = 3-7-1]		
* Salivary Glands	Atrophy	Minimal
* Skin	Hyperkeratosis	Mild
	Mineralization	Mild
[Hyperkeratosis TGLs = 6-22]		
[Mineralization TGLs = 6-22]		
* Spleen	Pigmentation	Mild
* Testes	Bilateral, Interstit Cell Adenoma	
[Adenoma TGLs = 2-7]		

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 110

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109324

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | Lacrimal Gland | * Lung | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- | | | | |
|--------------------------|----------------|-----------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Eye | | Cataract | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Colon | | Hemorrhage | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Mild |
| * Mammary Gland | Duct | Ectasia | Mild |
| * Nose | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Moderate |
| * Pancreas | | Cyst | |
| * Pituitary Gland | Pars Distalis | Atrophy | Marked |
- [Atrophy TGLs = 2-1]

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 110

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 109324

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Moderate
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-7]			

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 111

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 677
 HISTO: 109325

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * 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 | * Lung | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|-----------------------------------|---------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hyperplasia | Marked |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Casts Protein | Minimal |
| | Transit Epithe | Hyperplasia | Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| * Mammary Gland | Duct | Ectasia | Minimal |
| * Nose | | Foreign Body | Mild |
| | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic, Mild |
| * Preputial Gland | | Carcinoma | |
| | [Carcinoma TGLs = 1-21] | | |
| * Prostate | Epithelium | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 111

TMT: 5

SEX: Male

DAY ON TEST: 677

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 109325

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6]		
* Testes		Bilateral, Interstit Cell	Adenoma
	[Adenoma TGLs = 2-7]		
* Thyroid Gland		C Cell	Hyperplasia
			Moderate

PRIMARY CAUSE OF DEATH - Preputial Gland Carcinoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 112

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 407
 HISTO: 109326

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-------------------|------------------------|----------------------|
| * Adrenal Medulla | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Trachea | * Urinary Bladder |

MISSING

- | | |
|---------------------------|--------------------------|
| * Intestine Large, Rectum | * Lymph Node, Mandibular |
|---------------------------|--------------------------|

AUTO PRECLUDES DIAG.

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Thyroid Gland | | |

OBSERVATIONS

- | | | |
|--|--|---------------------|
| * Adrenal Cortex | Degeneration | Fatty, Mild |
| * Bone Marrow | Hyperplasia | Moderate |
| * Heart | Cardiomyopathy | Moderate |
| * Kidney | Mineralization | Minimal |
| | Sarcoma | |
| Note: TGL 1-21 Similar to description page 143, PATHOLOGY OF THE FISCHER RAT, Boorman et al. Academia Press Inc. 1990. | | |
| Note: TGL 1-21 Mesenchymal tumor with predominantly smooth muscle, lipomatous, and vascular differentiation and moderate necrosis. | | |
| [Sarcoma TGLs = 1-21] | | |
| * Liver | Basophilic Focus | |
| | Hepatodiaphragmatic Nodule | |
| | Hyperplasia | Mild |
| | Bile Duct | |
| | [Hepatodiaphragmatic Nodule TGLs = 2-22] | |
| * Lung | Sarcoma | Metastatic (Kidney) |
| | [Sarcoma TGLs = 3-2] | |
| * Seminal Vesicle | Sarcoma | Metastatic (Kidney) |
| * Spleen | Pigmentation | Moderate |

PRIMARY CAUSE OF DEATH - Kidney Sarcoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 113

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 652
 HISTO: 109327

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Brain		Compression	
	[Compression TGLs = 4-1]		
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Minimal
		Mineralization	Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
	Note: TGL 6-21 Abnormal fissures and lobulations are not routinely tabulated.		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
	[Ectasia TGLs = 1-8]		
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
		Pigmentation	Minimal
	[Adenoma TGLs = 5-1]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 113

TMT: 5

SEX: Male

DAY ON TEST: 652

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 109327

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia Inflammation	Mild Chronic, Moderate
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 3-7]			
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 114

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 608
 HISTO: 109328

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum

OBSERVATIONS

* Brain		Compression	
[Compression TGLs = 6-1]			
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
* Lung		Metaplasia	Osseous, Minimal
* Mammary Gland	Duct	Ectasia	Moderate
[Ectasia TGLs = 1-8]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 3-21]			
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 114

TMT: 5

SEX: Male

DAY ON TEST: 608

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 109328

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 7-1]			
* Preputial Gland		Adenoma	
[Adenoma TGLs = 2-8]			
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Moderate
* Spleen	Lymph Follic	Atrophy	Minimal
		Pigmentation	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Adenoma	
[Adenoma TGLs = 4-3]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: TGL 5=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 115

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 652
 HISTO: 109329

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Carcinoma	
		Casts Protein	Minimal
		Nephropathy	Mild
	[Carcinoma TGLs = 1-21]		
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	[Alveolar/Bronchiolar Adenoma TGLs = 4-22]	Alveolar/Bronchiolar Adenoma	
* Pancreas		Atrophy	Minimal
		Cyst	
		Mixed Tumor Benign	
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Mild
* Stomach, Glandular		Erosion	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 115

TMT: 5

SEX: Male

DAY ON TEST: 652

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 109329

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 3-7]

PRIMARY CAUSE OF DEATH - Kidney Renal Tubule Carcinoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 116

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 598
 HISTO: 109330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Mineralization	Mild
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
[Angiectasis TGLs = 4-1]		Inflammation	Chronic, Mild
* Preputial Gland		Hyperplasia	Minimal
* Prostate	Epithelium	Inflammation	Chronic, Mild
		Pigmentation	Moderate
* Spleen		Adenoma	
* Testes	Bilateral, Interstit Cell		
[Adenoma TGLs = 1-7]			

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 116

TMT: 5

SEX: Male

DAY ON TEST: 598

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 109330

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: TGL 2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 117

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 706
 HISTO: 109331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Parathyroid Gland |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|--|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | | Degeneration | Fatty, Mild |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Eye | | Cataract | Minimal |
| * Harderian Gland | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Leukemia Mononuclear | |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| | [Leukemia Mononuclear TGLs = 8-5, 9-24] | | |
| * Liver | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 10-6] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Deep Cervical | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 12-25] | | |
| | [Leukemia Mononuclear TGLs = 13-26, 14-27] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 117

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 706
HISTO: 109331

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 5-22]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 7-23]			
* Mammary Gland	Duct	Ectasia Fibroadenoma	Mild
[Fibroadenoma TGLs = 1-21]			
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	
		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-28]			
* Stomach, Glandular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 15-4]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-7]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 11-3]			
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 118

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109332

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|-------------------------------------|-------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | Bilateral | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Compression | |
| | [Compression TGLs = 8-1] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Mineralization | Mild |
| | [Mineralization TGLs = 5-5] | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | [Leukemia Mononuclear TGLs = 6-6] | Leukemia Mononuclear | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | [Leukemia Mononuclear TGLs = 7-2] | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4-7] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | Duct | Ectasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 118

TMT: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109332

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Foreign Body	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 9-1]			
* Preputial Gland		Adenoma	
[Adenoma TGLs = 1-8]			
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-7]			

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 119

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Harderian Gland | * 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 | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---|----------------|-----------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Marked |
| * Bone Marrow | | Hyperplasia | Mild |
| * Eye | | Cataract | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| Mesentery | | | |
| Note: Arteries in mesenteric adipose tissue slide # 7, mild polyarteritis nodosa. | | | |
| * Pancreas | | Atrophy | Moderate |
| | Acinus | Hyperplasia | Focal, Mild |
| * Preputial Gland | | Carcinoma | |
| [Carcinoma TGLs = 1-23] | | | |
| * Skin | | Inflammation | Chronic, Marked |
| | | Keratoacanthoma | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 119

TMT: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109333

ORGAN AND ACCOUNTABLE SITE STATUS

	[Inflammation TGLs = 2-21]			
	[Keratoacanthoma TGLs = 3-22]			
* Spleen	Lymph Follic	Hyperplasia	Mild	
		Pigmentation	Minimal	
* Testes	Bilateral, Interstit Cell	Adenoma		
	[Adenoma TGLs = 4-7]			

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 120

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 450
HISTO: 109334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Islets, Pancreatic	* Lung	* Nose
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Thyroid Gland	

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Minimal
		Mineralization	Mild
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
	Centrilobular	Necrosis	Marked
	Note: Liver, necrosis-centrilobular to midzonal.		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland	Duct	Ectasia	Mild
* Pancreas		Atrophy	Mild
* Skin		Cyst Epithelial Inclusion	
	[Cyst Epithelial Inclusion TGLs = 1-21]		
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Liver Centrilobular Necrosis

Animal Note: TGL 2=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 121

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 615
HISTO: 109335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Skin	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Thyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6-1]		
* Epididymis		Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Casts Protein	Mild
	Transit Epithe	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mineralization	Mild
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 121

TMT: 5

SEX: Male

DAY ON TEST: 615

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 109335

ORGAN AND ACCOUNTABLE SITE STATUS

Necrosis Minimal

[Leukemia Mononuclear TGLs = 4-3]

Fibroadenoma

* Mammary Gland

[Fibroadenoma TGLs = 1-21]

Leukemia Mononuclear

* Nose

Leukemia Mononuclear

* Pituitary Gland

Leukemia Mononuclear

* Seminal Vesicle

Leukemia Mononuclear

* Spleen

[Leukemia Mononuclear TGLs = 3-22]

Hyperplasia

* Stomach, Forestomach

Epithelium

Mild

* Testes

Interstit Cell

Adenoma

Leukemia Mononuclear

[Adenoma TGLs = 2-7]

Leukemia Mononuclear

* Thymus

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 122

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Dosing Accident

DAY ON TEST: 485
 HISTO: 109336

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Thyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Mild Fatty, Minimal
Blood Vessel			
Note: Large artery in mesentery (slide# 4) Mild chronic inflammation and mild thrombosis (early poly arteritis nodosa).			
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization Nephropathy	Mild Minimal
* Liver		Basophilic Focus	
* Lung	Bile Duct Alveolar Epith	Hyperplasia Hyperplasia Infiltration Cellular Inflammation Hemorrhage	Minimal Mild Histiocyte, Minimal Chronic, Mild Minimal
* Lymph Node, Mesenteric			
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Rathkes Cleft	Dilatation	Minimal
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 122

TMT: 5

SEX: Male

DAY ON TEST: 485

DOSE: 25 MG/KG

DISP: Dosing Accident

HISTO: 109336

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 1-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 123

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109337

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lymph Node, Mesenteric |
| * Parathyroid Gland | * Pituitary Gland | * Prostate | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|----------------------|----------------------------|-------------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hyperplasia | Marked |
| * Eye | | Cataract | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Hyperplasia | Moderate |
| * Kidney | | Casts Protein | Moderate |
| | Transit Epithe | Hyperplasia | Minimal |
| | | Mineralization | Mild |
| | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | [Hyperplasia TGLs = 4-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | Duct | Ectasia | Minimal |
| * Nose | Respirat Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Pancreas | | Atrophy | Minimal |
| | | Cyst | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 123

TMT: 5

SEX: Male

DAY ON TEST: 730

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109337

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Adenoma TGLs = 2-22]	Acinus	Hyperplasia Adenoma	Focal, Mild
* Salivary Glands		Atrophy	Minimal
* Skin	Subcut Tiss	Fibrosis	Minimal
	Epidermis	Hyperkeratosis	Marked
		Hyperplasia	Moderate
		Inflammation	Chronic, Mild
Note: TGL 5-21 This lesion is atypical with low cellularity and less compaction of collagen fibers (resembles a collagen nevus). [Fibrosis TGLs = 5-21] [Hyperkeratosis TGLs = 1-23] [Hyperplasia TGLs = 1-23] [Inflammation TGLs = 1-23]			
* Spleen	Lymph Follic	Hyperplasia	Moderate
* Testes [Adenoma TGLs = 3-7]	Bilateral, Interstit Cell	Adenoma	

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 124

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 708
HISTO: 109338

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Rectum	* Islets, Pancreatic	* Parathyroid Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLs = 3-10]		
* Bone Marrow		Leukemia Mononuclear	
* Eye		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7-23]		
Lymph Node	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 124

TMT: 5

SEX: Male

DAY ON TEST: 708

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 109338

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 1-22]		
* Lymph Node, Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 5-5]		
* Mammary Gland Duct	Ectasia	Minimal
* Nose	Leukemia Mononuclear	
* Pancreas	Leukemia Mononuclear	
Note: Pancreas is missing from slide # 7. Sample on slide # 22-leukemia		
* Pituitary Gland Pars Distalis	Cyst	
	Leukemia Mononuclear	
* Preputial Gland	Inflammation	Chronic, Mild
* Salivary Glands	Leukemia Mononuclear	
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 2-21]		
* Stomach, Glandular	Erosion	Mild
[Erosion TGLs = 8-4]		
* Testes Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 6-7]		
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 125

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 689
 HISTO: 109339

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|----------------------|-----------------|
| * Adrenal Medulla | * Bone | * Esophagus | * Heart |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Mammary Gland |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Thyroid Gland |
| * Trachea | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-----------------------------|--------------------------------------|-----------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Compression | |
| | [Compression TGLs = 8-1] | | |
| * Epididymis | | Leukemia Mononuclear | |
| * Eye | | Cataract | Minimal |
| * Harderian Gland | | Inflammation | Chronic, Minimal |
| * Intestine Large, Cecum | | Leukemia Mononuclear | |
| * Intestine Large, Colon | | Leukemia Mononuclear | |
| * Intestine Large, Rectum | | Leukemia Mononuclear | |
| * Intestine Small, Duodenum | | Leukemia Mononuclear | |
| * Kidney | | Casts Protein | Minimal |
| | | Leukemia Mononuclear | |
| | | Mineralization | Minimal |
| * Liver | | Leukemia Mononuclear | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 9-24] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 6-23] | | |
| Mesentery | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 125

TMT: 5

SEX: Male

DAY ON TEST: 689

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 109339

ORGAN AND ACCOUNTABLE SITE STATUS

	Fat	Necrosis	Mild
	[Leukemia Mononuclear TGLs = 2-21]		
	[Necrosis TGLs = 2-21]		
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pancreas		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-7]		
* Pituitary Gland	Pars Distalis	Adenoma	
		Pigmentation	Minimal
	Note: TGL 7-1 includes marked angiectasis.		
	[Adenoma TGLs = 7-1]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6]		
* Stomach, Forestomach		Edema	Marked
		Leukemia Mononuclear	
		Ulcer	Marked
* Stomach, Glandular		Edema	Moderate
		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1-7]		
* Thymus		Lymphoma Malignant	
Tissue NOS		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-22]		
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
 CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 126

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 532
 HISTO: 109340

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Adrenal Medulla	* Lymph Node, Mandibular	* Parathyroid Gland	* Thymus
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Bone		Schwannoma Malignant	Metastatic (Tissue Nos)
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Schwannoma Malignant	Metastatic (Tissue Nos)
* Liver		Mineralization	Mild
	Bile Duct	Degeneration	Cystic, Minimal
* Lung		Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Schwannoma Malignant	Metastatic (Tissue Nos)
* Nose		Hemorrhage	Mild
Skeletal Muscle		Inflammation	Chronic, Minimal
	[Schwannoma Malignant TGLs = 3-21]	Schwannoma Malignant	Metastatic (Tissue Nos)
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLs = 1-7]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 126

TMT: 5

SEX: Male

DAY ON TEST: 532

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 109340

ORGAN AND ACCOUNTABLE SITE STATUS

Tissue NOS

Schwannoma Malignant

[Schwannoma Malignant TGLs = 5-22, 5-22-1, 5-22-2]

PRIMARY CAUSE OF DEATH

- Tissue NOS Schwannoma Malignant

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 127

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 404
 HISTO: 109341

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* 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	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Preputial Gland		Carcinoma	
	[Carcinoma TGLs = 1-8]		
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Preputial Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 128

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 163
HISTO: 109342

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* 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			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum * Intestine Small, Ileum

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 1-21]		
* Spleen		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 129

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109343

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration Hyperplasia Leukemia Mononuclear	Fatty, Minimal Focal, Mild
* Adrenal Medulla		Hyperplasia Leukemia Mononuclear	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy Thrombosis	Minimal
	[Cardiomyopathy TGLs = 10-12]		
	[Thrombosis TGLs = 9-12]		
* Intestine Small, Ileum		Inflammation	Acute, Minimal
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Casts Protein Mineralization Nephropathy	Minimal Mild Mild
* Liver		Leukemia Mononuclear Vacuolization Cytoplasmic	Moderate
	Hepatocyte		
	[Leukemia Mononuclear TGLs = 4-6]		
* Lung		Infiltration Cellular Metaplasia	Histiocyte, Minimal Osseous, Minimal
Lymph Node	Pancreatic Mediastinal	Leukemia Mononuclear Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 129

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109343

ORGAN AND ACCOUNTABLE SITE STATUS

	[Leukemia Mononuclear	TGLs = 5-7]		
	[Leukemia Mononuclear	TGLs = 8-3]		
* Lymph Node, Mesenteric			Leukemia Mononuclear	
	[Leukemia Mononuclear	TGLs = 7-5]		
* Mammary Gland			Carcinoma	
		Duct	Ectasia	Mild
	[Carcinoma	TGLs = 2-21]		
* Nose		Respirat Epith	Hyperplasia	Mild
			Inflammation	Chronic, Minimal
* Pancreas			Atrophy	Mild
			Cyst	
* Pituitary Gland		Pars Intermed	Cyst	
* Prostate			Inflammation	Chronic, Minimal
* Spleen			Leukemia Mononuclear	
	[Leukemia Mononuclear	TGLs = 3-6]		
* Stomach, Forestomach		Epithelium	Hyperplasia	Minimal
			Inflammation	Chronic Active, Mild
* Stomach, Glandular			Erosion	Moderate
* Testes		Bilateral, Interstit Cell	Adenoma	
	[Adenoma	TGLs = 6-7]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 130

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109344

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* 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	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Eye	Bilateral	Cataract	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Mild
		Mineralization	Mild
		Nephropathy	Mild
* Liver		Eosinophilic Focus	
		Leukemia Mononuclear	
		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
	[Leukemia Mononuclear TGLs = 5-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Metaplasia	Osseous, Minimal
* Pancreas		Cyst	
	Acinus	Hyperplasia	Focal, Marked
* Preputial Gland		Carcinoma	
	[Carcinoma TGLs = 1-8]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 130

TMT: 5

SEX: Male

DAY ON TEST: 730

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109344

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibrosarcoma	
	[Fibrosarcoma TGLs = 2-21]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 3-7]		
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 131

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 599
 HISTO: 109345

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
	[Leukemia Mononuclear TGLs = 4-6]	Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy	Minimal
		Cyst	
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 2-7]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 131

TMT: 5

SEX: Male

DAY ON TEST: 599

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 109345

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Papilloma

Note: TGL 5-8 Slide# 8 contains papillary mass composed of oval cells with eosinophilic cytoplasm and oval nuclei (transitional cells). Mitotic figures are rare.

Note: TGL 5-8 Lesion includes mild hemorrhage and necrosis.

[Papilloma TGLs = 5-8]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 132

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 485
 HISTO: 109346

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-6]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[Hyperplasia TGLs = 9-2]		
	[Leukemia Mononuclear TGLs = 8-2, 9-2]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7-3]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland	Duct	Ectasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 132

TMT: 5

SEX: Male

DAY ON TEST: 485

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 109346

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland	Inflammation	Chronic, Mild
* Spleen [Leukemia Mononuclear TGLs = 2-6]	Leukemia Mononuclear	
* Stomach, Glandular [Erosion TGLs = 10-4]	Erosion	Mild
* Testes [Adenoma TGLs = 3-7]	Interstit Cell Adenoma	
* Thymus [Leukemia Mononuclear TGLs = 6-3]	Leukemia Mononuclear	
* Urinary Bladder	Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: TGL 11=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 133

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 540
 HISTO: 109347

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Lymph Node, Mandibular	* Urinary Bladder
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OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
	[Cardiomyopathy TGLs = 12-12]		
* Kidney		Casts Protein	Minimal
		Mineralization	Mild
		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
	Hepatocyte	Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLs = 9-23]	Vacuolization Cytoplasmic	Marked
	[Leukemia Mononuclear TGLs = 8-6, 10-24, 11-25]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 13-2]		
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland	Duct	Ectasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 133

TMT: 5

SEX: Male

DAY ON TEST: 540

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 109347

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery		Accessory Spleen	
[Accessory Spleen TGLs = 5-22]			
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
		Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Skin	Subcut Tiss	Fibroma	Multiple
[Fibroma TGLs = 2-21, 14-26]			
* Spleen		Infarct	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-27, 4-27]			
* Stomach, Glandular		Erosion	Moderate
[Erosion TGLs = 15-4]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLs = 7-7]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 134

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109348

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Parathyroid Gland | * Pituitary Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Lymph Node, Mandibular

INSUFFICIENT TISSUE

- * Mammary Gland

OBSERVATIONS

- | | | | |
|-------------------|---|---|---------------------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule
Degeneration
Hyperplasia
Pheochromocytoma Benign | Mild
Fatty, Mild
Focal, Minimal |
| * Adrenal Medulla | Bilateral
[Pheochromocytoma Benign TGLs = 3-10] | | |
| * Eye | | Cataract | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Casts Protein
Mineralization
Nephropathy | Moderate
Mild
Moderate |
| * Liver | | Basophilic Focus
Clear Cell Focus
Hepatodiaphragmatic Nodule | |
| | Bile Duct
[Hepatodiaphragmatic Nodule TGLs = 4-21] | Hyperplasia
Infiltration Cellular | Mild
Mixed Cell, Minimal |
| * Lung | Alveolar Epith | Hyperplasia
Infiltration Cellular | Mild
Histiocyte, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 134

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109348

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Hemorrhage	Mild
		Hyperplasia	Lymphoid, Mild
Mesentery		Mesothelioma Malignant	
Note: TGL 2-23 Mesothelioma also observed on slides # 6, 7, and 7-1.			
[Mesothelioma Malignant TGLs = 2-23]			
* Nose	Goblet Cell	Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLs = 5-22]			
* Spleen	Lymph Follic	Hyperplasia	Minimal
		Pigmentation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLs = 6-7]			

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 135

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 702
 HISTO: 109349

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* 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	* Nose	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung		Chordoma	Metastatic (Uncertain Primary Site)
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Ectasia	Mild
		Hemorrhage	Mild
		Hyperplasia	Lymphoid, Mild
	[Ectasia TGLs = 3-5]		
	[Hyperplasia TGLs = 3-5]		
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy	Moderate
* Preputial Gland		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 135

TMT: 5

SEX: Male

DAY ON TEST: 702

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 109349

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Inflammation	Acute, Minimal
Skeletal Muscle		Chordoma	Metastatic (Uncertain Primary Site)
[Chordoma TGLs = 4-21]			
* Spleen		Pigmentation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Ulcer	Marked
Note: TGL 7-4, lesion includes moderate granulation tissue formation, inflammation, and edema.			
		[Hyperplasia TGLs = 7-4]	
		[Ulcer TGLs = 7-4]	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-7]			

PRIMARY CAUSE OF DEATH - Skeletal Muscle Chordoma Uncertain Primary Site
CONTRIBUTORY CAUSE OF DEATH - Lung Chordoma Uncertain Primary Site
- Stomach, Forestomach Ulcer

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 136

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109350

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLs = 5-10]		
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
* Lung	Alveolar Epith	Leukemia Mononuclear	
		Hyperplasia	Marked
		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6-3]		
	[Leukemia Mononuclear TGLs = 2-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland	Duct	Ectasia	Mild
* Pancreas		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 136

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109350

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Acinus Pars Distalis	Hyperplasia Adenoma Pigmentation	Focal, Mild Minimal
[Adenoma TGLs = 7-1]			
* Preputial Gland		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 4-21]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 137

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109351

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Pituitary Gland	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Intestine Small, Ileum	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Minimal
		Mineralization	Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
	[Clear Cell Focus TGLs = 4-6]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Histiocyte, Minimal
	[Alveolar/Bronchiolar Carcinoma TGLs = 5-23]		
* Mammary Gland	Duct	Ectasia	Minimal
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 3-22]		
* Pancreas		Atrophy	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 137

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 109351

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Atrophy	Minimal
* Skin		Cyst Epithelial Inclusion	
	Subcut Tiss	Fibroma	
		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Mild
		Keratoacanthoma	
Note: TGL 1-21 Hyperkeratosis/hyperplasia of epidermis overlying intra-dermal cystic space filled with keratin, surrounded by moderate granulomatous inflammation.			
		[Cyst Epithelial Inclusion TGLs = 1-21]	
		[Fibroma TGLs = 6-25]	
		[Hyperkeratosis TGLs = 1-21]	
		[Hyperplasia TGLs = 1-21]	
		[Keratoacanthoma TGLs = 7-26]	
* Spleen	Lymph Follic	Hyperplasia	Minimal
		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLs = 2-7]	
* Thyroid Gland		Degeneration	Cystic, Minimal

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 138

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Pituitary Gland	* Prostate
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Moderate
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Minimal
		Mineralization	Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Moderate
	[Ectasia TGLs = 2-8]		
* Pancreas		Atrophy	Mild
* Preputial Gland		Carcinoma	
	[Carcinoma TGLs = 1-21]		
* Salivary Glands		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 138

TMT: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109352

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Lymph Follic	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Pigmentation	Mild
[Adenoma TGLs = 3-7]		Adenoma	

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 139

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 631
 HISTO: 109353

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Parathyroid Gland | * Prostate |
| * Seminal Vesicle | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|--|---------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Colon | | Edema | Mild |
| * Kidney | | Casts Protein | Minimal |
| | | Mineralization | Mild |
| | | Nephropathy | Minimal |
| * Liver | Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| | [Vacuolization Cytoplasmic TGLs = 4-6] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mesenteric | | Hemorrhage | Minimal |
| * Mammary Gland | Duct | Ectasia | Minimal |
| * Nose | Respirat Epith | Hyperplasia | Mild |
| | | Inflammation | Chronic, Minimal |
| * Pancreas | | Atrophy | Minimal |
| | | Cyst | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Salivary Glands | | Atrophy | Mild |
| | | Inflammation | Acute, Mild |
| * Skin | Subcut Tiss | Fibrosarcoma | |
| | [Fibrosarcoma TGLs = 5-21] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 139

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 631
HISTO: 109353

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Lymph Follic	Atrophy Pigmentation	Moderate Marked
[Atrophy TGLs = 3-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-7]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 140

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 663
 HISTO: 109354

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * 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 | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|----------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | | Degeneration | Fatty, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Brain | | Astrocytoma Malignant | |
| | | Compression | |
| | [Compression TGLs = 4-1] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Casts Protein | Mild |
| | | Mineralization | Mild |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| | | Metaplasia | Osseous, Minimal |
| Lymph Node | Mediastinal | Hyperplasia | Lymphoid, Moderate |
| | [Hyperplasia TGLs = 3-3] | | |
| * Mammary Gland | Duct | Ectasia | Moderate |
| Mesentery | Fat | Necrosis | Moderate |
| | [Necrosis TGLs = 1-21] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 140

TMT: 5

SEX: Male

DAY ON TEST: 663

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 109354

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst Adenoma Pigmentation	Mild
[Adenoma TGLs = 5-1]			
* Prostate	Epithelium	Hyperplasia Inflammation	Mild Chronic, Moderate
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Brain Astrocytoma Malignant

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 141

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109355

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Preputial Gland	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Brain		Mineralization	Mild
		Necrosis	Marked
	[Necrosis TGLs = 7-1]		
* Eye	Bilateral	Cataract	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Marked
		Mineralization	Minimal
		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Note: Liver-leukemia mononuclear: This was an early lesion.		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Marked
	Mediastinal	Pigmentation	Moderate
	[Hyperplasia TGLs = 5-3]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 141

TMT: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109355

ORGAN AND ACCOUNTABLE SITE STATUS

	[Pigmentation TGLs = 5-3]			
* Mammary Gland		Duct	Adenoma Ectasia Fibroadenoma	Mild
	[Adenoma TGLs = 3-22]			
	[Ectasia TGLs = 1-8]			
	[Fibroadenoma TGLs = 2-21]			
Mesentery			Hemorrhage	Marked
	[Hemorrhage TGLs = 4-23]			
* Pancreas			Atrophy Cyst	Minimal
		Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland		Pars Distalis	Adenoma	
	[Adenoma TGLs = 8-1]			
* Prostate		Epithelium	Hyperplasia Inflammation	Mild Chronic, Mild
* Salivary Glands			Atrophy	Mild
* Spleen			Leukemia Mononuclear Pigmentation	Mild
	Note: Spleen-leukemia mononuclear: This was an early lesion.			
* Testes		Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 9-7]			

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 142

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 659
 HISTO: 109356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Thyroid Gland	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone	Femur	Leukemia Mononuclear	Mild
* Bone Marrow		Osteopetrosis	
* Brain		Leukemia Mononuclear	
	[Compression TGLs = 8-1]	Compression	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Liver		Thrombosis	
	Bile Duct	Degeneration	Cystic, Minimal
		Hyperplasia	Moderate
	[Leukemia Mononuclear TGLs = 4-6]	Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		Necrosis	Moderate
* Pancreas		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 142

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 659
 HISTO: 109356

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Leukemia Mononuclear Adenoma Pigmentation	Mild
[Adenoma TGLs = 7-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Fibrosis Hyperplasia Inflammation	Mild Mild Chronic, Marked
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLs = 6-21]			
* Spleen		Leukemia Mononuclear Necrosis	Moderate
[Leukemia Mononuclear TGLs = 3-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
* Stomach, Glandular		Ulcer	Marked
[Ulcer TGLs = 9-4]			
* Testes	Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 5-3]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
 CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma
 - Stomach, Glandular Ulcer

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 143

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 394
HISTO: 109357

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 |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung | * Lymph Node, Mesenteric |
| * Mammary Gland | * Pancreas | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|--------------------------|----------|
| * Lymph Node, Mandibular | * Thymus |
|--------------------------|----------|

INSUFFICIENT TISSUE

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|------------------|----------------|----------------|---------------|
| * Adrenal Cortex | | Degeneration | Fatty, Mild |
| * Bone Marrow | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Mild |
| * Nose | | Foreign Body | Mild |
| | | Inflammation | Chronic, Mild |
| * Spleen | | Pigmentation | Mild |
| * Testes | Interstit Cell | Hyperplasia | Marked |

[Hyperplasia TGLs = 2-7]

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 144

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 612
 HISTO: 109358

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Small, Duodenum
* Islets, Pancreatic	* Liver	* Nose	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Spleen	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Minimal Fatty, Minimal
* Bone		Osteosarcoma	
Note: TGL 5-21 Osteosarcoma, telangiectetic type. [Osteosarcoma TGLs = 5-21]			
* Heart		Cardiomyopathy	Minimal
* Lung		Osteosarcoma	Metastatic (Bone)
Note: Lung-metastatic osteosarcoma, intravascular.			
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Intermed	Angiectasis	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2-7]			
* Thymus		Ectopic Parathyroid Gland	Minimal

PRIMARY CAUSE OF DEATH - Bone Osteosarcoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 145

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109359

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* 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	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
		Degeneration	Fatty, Minimal
* Adrenal Medulla		Hyperplasia	Moderate
* Brain		Compression	
	[Compression TGLs = 11-1]		
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Mineralization	Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Moderate
	[Ectasia TGLs = 2-22, 3-8]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 5-23]		
* Pancreas		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 145

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO: 109359

ORGAN AND ACCOUNTABLE SITE STATUS

	Acinus	Hyperplasia	Focal, Moderate
[Hyperplasia TGLs = 6-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 12-1]			
* Prostate	Epithelium	Hyperplasia Inflammation	Mild Chronic, Marked
[Hyperplasia TGLs = 8-7-1]			
[Inflammation TGLs = 8-7-1]			
* Skin	Epidermis	Hyperkeratosis Hyperplasia	Marked Moderate
[Hyperkeratosis TGLs = 1-21]			
[Hyperplasia TGLs = 1-21]			
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: Interstitial cell tumor in the left testis is small.			
[Adenoma TGLs = 4-7]			
* Thyroid Gland	Follicular Cel	Adenoma	
[Adenoma TGLs = 9-3]			

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 146

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 313
HISTO: 109360

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Islets, Pancreatic	* Liver	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Thyroid Gland		

OBSERVATIONS

* Brain		Compression	
[Compression TGLs = 6-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Lung		Metaplasia	Osseous, Minimal
* Mammary Gland	Duct	Ectasia	Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 2-22]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 5-1]			
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Marked
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: TGL 3=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 147

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109361

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
* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Minimal
* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland	Duct	Ectasia	Minimal
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLs = 3-22]		
* Nose	Goblet Cell	Hyperplasia	Mild
* Pancreas		Atrophy	Mild
		Cyst	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 147

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109361

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLs = 4-1]	Pars Distalis	Adenoma	
* Skin [Fibroma TGLs = 1-21]	Subcut Tiss	Fibroma Inflammation	Chronic, Minimal
* Spleen	Lymph Follic	Hyperplasia Pigmentation	Minimal Mild
* Testes [Adenoma TGLs = 2-7]	Bilateral, Interstit Cell	Adenoma	

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 148

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 718
 HISTO: 109362

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
Lymph Node	* Parathyroid Gland	* Salivary Glands	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
* Bone	Femur	Osteopetrosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis		Leukemia Mononuclear	
* Eye		Cataract	Minimal
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Intestine Large, Colon		Necrosis	Mild
* Kidney		Casts Protein	Mild
		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-6]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hyperplasia TGLs = 11-23]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7-5]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 148

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 718
HISTO: 109362

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland	Duct	Ectasia	Mild
* Nose		Foreign Body	Minimal
	Goblet Cell	Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: TGL 8-1 Lesion includes marked angiectasis.			
[Adenoma TGLs = 8-1]			
* Preputial Gland		Adenoma	
		Leukemia Mononuclear	
Note: TGL 1-21 Lesion includes anaplastic area with marked chronic inflammation, necrosis, fibrosis, and osteoid production.			
[Adenoma TGLs = 1-21]			
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Seminal Vesicle		Leukemia Mononuclear	
* Skin		Hyperkeratosis	Mild
		Inflammation	Chronic, Mild
		Necrosis	Moderate
[Hyperkeratosis TGLs = 9-22]			
[Inflammation TGLs = 9-22]			
[Necrosis TGLs = 9-22]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 4-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Stomach, Glandular		Leukemia Mononuclear	
		Ulcer	Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
		Leukemia Mononuclear	
[Adenoma TGLs = 2-7]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 148

TMT: 5

SEX: Male

DAY ON TEST: 718

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 109362

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLs = 3-7]

* Thyroid Gland

Follicular Cel

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Preputial Gland Adenoma

Animal Note: TGL 6 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 149

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 637
 HISTO: 109363

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Lung
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Thyroid Gland	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Brain		Compression	
[Compression TGLs = 5-1]			
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Leukemia Mononuclear TGLs = 2-6]			
* Mammary Gland	Duct	Ectasia	Mild
[Ectasia TGLs = 1-8]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Pigmentation	Mild
[Adenoma TGLs = 6-1]			
* Preputial Gland		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 149

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 637
HISTO: 109363

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Moderate
* Skin		Cyst Epithelial Inclusion	
	[Cyst Epithelial Inclusion TGLs = 4-21]		
* Spleen		Leukemia Mononuclear Pigmentation	Mild
	Note: Spleen,leukemia-this is an early lesion.		
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Germinal Epith Interstit Cell	Atrophy Hyperplasia	Minimal Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: TGL 3=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 150

TMT: 5
 DOSE: 25 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 668
 HISTO: 109364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Marked
		Degeneration	Fatty, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Minimal
* Brain		Compression	
	[Compression TGLs = 4-1]		
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Mild
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland	Duct	Ectasia	Moderate
	[Ectasia TGLs = 1-8]		
* Pancreas		Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 150

TMT: 5
DOSE: 25 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 668
HISTO: 109364

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma Pigmentation	Mild
[Adenoma TGLs = 5-1]			
* Prostate	Epithelium	Hyperplasia Inflammation	Minimal Chronic, Moderate
* Spleen		Pigmentation	Moderate
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLs = 2-7]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: TGL 3=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 151

TMT: 7
 DOSE: 50 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 603
 HISTO: 109365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Thyroid Gland
--------------------------	-----------------------------	----------------------------	-----------------

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Mild
		Mineralization	Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
* Nose		Foreign Body	Mild
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
Note: TGL 1-21 Fibroma-Marked necrosis in the mass. [Fibroma TGLs = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 151

TMT: 7

SEX: Male

DAY ON TEST: 603

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109365

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLs = 2-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 152

TMT: 7

SEX: Male

DAY ON TEST: 94

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109366

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
* Skin		Hamartoma	

[Hamartoma TGLs = 3-21]

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 1,2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 153

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 422
HISTO: 109367

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Spleen	* Stomach, Glandular	* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Nose		Congestion	Moderate
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Intermed	Angiectasis	Minimal
* Prostate		Inflammation	Chronic, Minimal
* Testes	Interstit Cell	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 154

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 515
HISTO: 109368

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* 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
* Lung	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy	Moderate
		Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
	[Hyperplasia TGLs = 3-1]		
* Spleen		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1-7]		

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 155

TMT: 7

SEX: Male

DAY ON TEST: 235

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109369

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* 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	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum

OBSERVATIONS

* Adrenal Cortex	Degeneration	Fatty, Minimal
* Heart	Cardiomyopathy	Minimal
* Intestine Small, Ileum	Inflammation	Acute, Minimal
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Liver	Infiltration Cellular	Mixed Cell, Minimal
* Spleen	Pigmentation	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 156

TMT: 7
 DOSE: 50 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 359
 HISTO: 109370

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Small, Duodenum		Necrosis	Lymphoid, Minimal
* Kidney		Casts Protein	Moderate
		Mineralization	Mild
		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	Centrilobular	Necrosis	Moderate
	[Hepatodiaphragmatic Nodule TGLs = 1-21]		
* Mammary Gland	Duct	Ectasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Marked
* Spleen		Necrosis	Minimal
		Pigmentation	Mild
* Stomach, Glandular		Necrosis	Lymphoid, Mild
* Testes	Interstit Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 156

TMT: 7

SEX: Male

DAY ON TEST: 359

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109370

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Degeneration

Cystic, Minimal

PRIMARY CAUSE OF DEATH - Liver Centrilobular Necrosis

Animal Note: TGL 2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 157

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 603
HISTO: 109371

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Duodenum * Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Minimal
* Brain		Necrosis	Mild
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Mild
		Mineralization	Mild
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Atrophy	Moderate
	Rathkes Cleft	Dilatation	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 157

TMT: 7

SEX: Male

DAY ON TEST: 603

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109371

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-7]			

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 158

TMT: 7

SEX: Male

DAY ON TEST: 470

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109372

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Rectum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Thyroid Gland		

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Eye		Cataract	Marked
[Cataract TGLs = 1-44]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 158

TMT: 7

SEX: Male

DAY ON TEST: 470

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109372

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 2-7]

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 3=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 159

TMT: 7

SEX: Male

DAY ON TEST: 281

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109373

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Duodenum

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Mammary Gland	Duct	Ectasia	Minimal
* Spleen		Pigmentation	Moderate
* Urinary Bladder		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 3,4=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 160

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 323
HISTO: 109374

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Ileum * Thyroid Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Pigmentation	Moderate
* Testes	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Mild

[Atrophy TGLs = 1-7]

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 3-NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 161

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 243
HISTO: 109375

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Islets, Pancreatic	* Liver	* 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	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Brain	Pigmentation	Minimal
* Heart	Cardiomyopathy	Mild
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Lung	Metaplasia	Osseous, Minimal
* Lymph Node, Mesenteric	Hemorrhage	Minimal
* Spleen	Pigmentation	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 2,3=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 162

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 135
HISTO: 109376

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Stomach, Forestomach	* Stomach, Glandular
--------------------------	------------------------	----------------------

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Ileum
--------------------------	--------------------------

OBSERVATIONS

* Adrenal Cortex	Degeneration	Fatty, Minimal
* Heart	Cardiomyopathy	Minimal
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Spleen	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 1,2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 163

TMT: 7
 DOSE: 50 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 667
 HISTO: 109377

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--|----------------|----------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| | | Hyperplasia | Focal, Mild |
| | | Necrosis | Minimal |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| * Eye | | Developmental Malformation | Moderate |
| Note: Eye-developmental malformation (microphthalmia). | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Casts Protein | Mild |
| | Transit Epithe | Hyperplasia | Mild |
| | | Mineralization | Mild |
| | Renal Tubule | Necrosis | Mild |
| | | Nephropathy | Moderate |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic, Mild |
| * Mammary Gland | Duct | Ectasia | Minimal |
| * Pancreas | | Atrophy | Mild |
| | | Cyst | |
| | | Hemorrhage | Mild |
| Note: Pancreas-hemorrhage, slide #4. | | | |
| * Prostate | | Inflammation | Chronic, Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 163

TMT: 7

SEX: Male

DAY ON TEST: 667

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109377

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLs = 4-7-1]

* Seminal Vesicle

Infiltration Cellular

Marked

Inflammation

Acute, Minimal

Note: Seminal vesicles-TGL 5-7 was entered in as "infiltration, cellular" because hemorrhage was not available in TDMS for the seminal vesicles.

[Infiltration Cellular TGLs = 5-7]

* Spleen

Pigmentation

Mild

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLs = 1-7]

* Thyroid Gland

C Cell

Adenoma

Degeneration

Cystic, Minimal

* Urinary Bladder

Hemorrhage

Minimal

Note: Minimal mesothelial cell hyperplasia on serosal surface of the urinary bladder.

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 164

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 379
HISTO: 109378

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Ileum
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OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mandibular		Congestion	Mild
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
Mesentery			
Note: Accessory spleen, slide #7.			
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 165

TMT: 7

SEX: Male

DAY ON TEST: 330

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109379

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, Jejunum
* Islets, Pancreatic	* Liver	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Marked
* Pancreas		Atrophy	Minimal
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 166

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 568
HISTO: 109380

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Mineralization	Mild
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Moderate
* Spleen		Pigmentation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLs = 1-7]

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 167

TMT: 7

SEX: Male

DAY ON TEST: 339

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109381

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
* Kidney	Mineralization	Mild
	Nephropathy	Minimal
* Lung		
Note: Rod bacteria in lung-postmortem change.		
* Pancreas	Atrophy	Marked
[Atrophy TGLs = 1-7]		
* Spleen	Pigmentation	Moderate
* Testes	Interstitial Cell	

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 168

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 519
HISTO: 109382

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2-1]		
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLs = 4-7]		

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 169

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 374
HISTO: 109383

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Small, Ileum * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon

INSUFFICIENT TISSUE

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1-1]			
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Spleen		Pigmentation	Mild
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 170

TMT: 7
 DOSE: 50 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 305
 HISTO: 109384

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
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INSUFFICIENT TISSUE

* Mammary Gland

OBSERVATIONS

* Epididymis		Mesothelioma Malignant	Metastatic (Testes)
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Centrilobular	Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLs = 2-21]	Necrosis	Marked
	[Necrosis TGLs = 1-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Thrombosis	
	Note: Microthrombi observed in alveolar capillaries.		
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Spleen		Pigmentation	Mild
* Testes	Germinal Epith	Atrophy	Mild
		Mesothelioma Malignant	
* Thyroid Gland		Degeneration	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 170

TMT: 7

SEX: Male

DAY ON TEST: 305

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109384

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Liver Centrilobular Necrosis

Animal Note: TGL 3=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 171

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 295
HISTO: 109385

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Liver
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

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

* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
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INSUFFICIENT TISSUE

* Mammary Gland

OBSERVATIONS

* Brain		Necrosis	Moderate
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Spleen		Pigmentation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Marked

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 172

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 205
HISTO: 109386

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	Penis	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLs = 2-7]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 1-21]			
* Pituitary Gland	Pars Distalis	Hemorrhage	Mild
	Pars Distalis	Necrosis	Marked
[Hemorrhage TGLs = 9-1]			
[Necrosis TGLs = 9-1]			
* Spleen		Pigmentation	Moderate
* Stomach, Glandular		Erosion	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Necrosis

Animal Note: TGL 4,6,7=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 173

TMT: 7

SEX: Male

DAY ON TEST: 233

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109387

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 2,3=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 174

TMT: 7
 DOSE: 50 MG/KG

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 382
 HISTO: 109388

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Atrophy	Moderate
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Skin		Basal Cell Carcinoma	
	[Basal Cell Carcinoma TGLs = 1-21]		
* Spleen	Lymph Follic	Hyperplasia	Mild
		Pigmentation	Mild
* Testes	Interstit Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Skin Basal Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 175

TMT: 7
 DOSE: 50 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 610
 HISTO: 109389

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Harderian Gland		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Leiomyoma	
Note: Leiomyoma-Mass is well circumscribed and densely cellular with occasional multinucleated giant cells and mild cellular pleomorphism. [Leiomyoma TGLs = 5-22]			
* Kidney		Casts Protein	Minimal
		Mineralization	Mild
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
[Fibrosis TGLs = 3-6]			
* Lung		Inflammation	Chronic, Minimal
* Mammary Gland	Duct	Ectasia	Marked
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 175

TMT: 7

SEX: Male

DAY ON TEST: 610

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109389

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	[Adenoma TGLs = 4-1]	Inflammation Keratoacanthoma	Chronic, Minimal
* Spleen	[Keratoacanthoma TGLs = 1-21] Lymph Follic	Hyperplasia Pigmentation	Minimal Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	[Adenoma TGLs = 2-7]	Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 176

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 269
HISTO: 109390

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
--------------------------	--------------------------	--------------------------	----------------------------

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 1,2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 177

TMT: 7

SEX: Male

DAY ON TEST: 330

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109391

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 178

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 212
HISTO: 109392

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Islets, Pancreatic	* Lung	* Nose	* 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, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

INSUFFICIENT TISSUE

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Necrosis	Marked
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Pancreas		Necrosis	Minimal
* Spleen	Lymph Follic	Atrophy	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH - Liver Centrilobular Necrosis

Animal Note: TGLs 1,2=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 179

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 178
HISTO: 109393

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Jejunum

INSUFFICIENT TISSUE

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Degeneration	Fatty, Minimal
* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Minimal
* Liver	Mixed Cell Focus	
* Lung	Metaplasia	Osseous, Mild
* Lymph Node, Mesenteric [Hemorrhage TGLs = 1-5]	Hemorrhage	Minimal
* Skin [Ulcer TGLs = 4-21]	Ulcer	Marked
* Spleen	Pigmentation	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 2,3=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 180

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 246
HISTO: 109394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Prostate | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Lymph Node, Mandibular

INSUFFICIENT TISSUE

- * Mammary Gland

OBSERVATIONS

- | | | | |
|-------------------|----------------------------|----------------|-------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | Centrilobular | Necrosis | Mild |
| Lymph Node | Pancreatic | Hyperplasia | Lymphoid, Mild |
| | [Hyperplasia TGLs = 1-7] | | |
| * Preputial Gland | | Inflammation | Chronic, Moderate |
| * Salivary Glands | | Hyperplasia | Minimal |
| * Spleen | | Pigmentation | Mild |

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 3=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 181

TMT: 7

SEX: Male

DAY ON TEST: 257

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109395

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	* Islets, Pancreatic
* Liver	* 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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2,3=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 182

TMT: 7
 DOSE: 50 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 590
 HISTO: 109396

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|-----------------------------|----------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |

MISSING

- | | |
|--------------------------|----------|
| * Lymph Node, Mandibular | * Thymus |
|--------------------------|----------|

AUTO PRECLUDES DIAG.

- | | | |
|--------------------------|--------------------------|----------------------------|
| * Intestine Large, Colon | * Intestine Small, Ileum | * Intestine Small, Jejunum |
|--------------------------|--------------------------|----------------------------|

OBSERVATIONS

- | | | | |
|-----------------|-----------|-----------------------|---------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Casts Protein | Minimal |
| | | Mineralization | Mild |
| | | Nephropathy | Minimal |
| * Liver | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | Duct | Ectasia | Moderate |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Skin | | Ulcer | Multiple, Moderate |

Note: TGL 1-21, 2-22 Skin overlying lesion was covered by an ulcerated, hyperplastic epithelium and a thick serocellular crust. There was mild chronic inflammation [Ulcer TGLs = 1-21, 2-22]

- | | | | |
|----------|---------------------------|--------------|--------|
| * Spleen | | Pigmentation | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | Germinal Epith | Atrophy | Marked |
- [Adenoma TGLs = 3-7]

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 182

TMT: 7

SEX: Male

DAY ON TEST: 590

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109396

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLs = 4-7]

* Urinary Bladder

Transit Epithe

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

CONTRIBUTORY CAUSE OF DEATH - Skin Ulcer

Animal Note: TGL 5=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 183

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 590
HISTO: 109397

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
--------------------------	-----------------------------	--------------------------	----------------------------

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
* Mammary Gland	Duct	Ectasia	Mild
Mesentery		Accessory Spleen	
	[Accessory Spleen TGLs = 3-21]		
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
		Pigmentation	Minimal
	[Angiectasis TGLs = 6-1]		
	[Hyperplasia TGLs = 6-1]		
* Preputial Gland		Adenoma	
	[Adenoma TGLs = 1-8]		
* Prostate		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 183

TMT: 7

SEX: Male

DAY ON TEST: 590

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109397

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Pigmentation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 2-7]		
* Thyroid Gland		Degeneration	Cystic, Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 4=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 184

TMT: 7
 DOSE: 50 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 414
 HISTO: 109398

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

- | | | |
|--------------------------|--------------------------|----------------------------|
| * Intestine Large, Colon | * Intestine Small, Ileum | * Intestine Small, Jejunum |
|--------------------------|--------------------------|----------------------------|

OBSERVATIONS

- | | | | |
|---|---|----------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Casts Protein | Minimal |
| | | Mineralization | Mild |
| | | Nephropathy | Mild |
| * Liver | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| Note: TGL #6 was observed on slide 6 instead of slide 21. | | | |
| | [Hepatodiaphragmatic Nodule TGLs = 1-6] | | |
| * Mammary Gland | Duct | Ectasia | Minimal |
| * Pituitary Gland | Rathkes Cleft | Dilatation | Minimal |
| * Prostate | | Inflammation | Chronic, Mild |
| * Spleen | | Pigmentation | Moderate |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| | | Stromal Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 3-22] | | |
| | [Stromal Hyperplasia TGLs = 3-22] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 184

TMT: 7

SEX: Male

DAY ON TEST: 414

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109398

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: TGL 2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 185

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 211
HISTO: 109399

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* 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	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Ileum

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Spleen	Accessory Spleen	
	Pigmentation	Mild

[Accessory Spleen TGLs = 1-21]

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 186

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 192
HISTO: 109400

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Islets, Pancreatic	* Liver	* Lung
* Nose	* 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, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

INSUFFICIENT TISSUE

* Mammary Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
		Hemorrhage	Mild
* Kidney		Nephropathy	Minimal
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLs = 2-7]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLs = 3-5]			
Mesentery		Accessory Spleen	
[Accessory Spleen TGLs = 1-21]			
* Pancreas		Atrophy	Mild
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 4,5=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 187

TMT: 7

SEX: Male

DAY ON TEST: 239

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109401

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Heart		Cardiomyopathy	Mild
		Hemorrhage	Mild
* Intestine Large, Cecum		Necrosis	Lymphoid, Minimal
* Kidney		Casts Protein	Moderate
		Mineralization	Minimal
	Renal Tubule	Necrosis	Moderate
		Nephropathy	Mild
* Liver	Centrilobular	Necrosis	Minimal
* Lymph Node, Mesenteric		Necrosis	Mild
* Mammary Gland	Duct	Ectasia	Minimal
* Spleen	Lymph Follicle	Hyperplasia	Mild
		Necrosis	Minimal
		Pigmentation	Mild
* Stomach, Glandular		Hemorrhage	Minimal
		Necrosis	Lymphoid, Mild
* Testes	Interstitial Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 188

TMT: 7
 DOSE: 50 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 213
 HISTO: 109402

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 Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Intestine Large, Rectum		Inflammation	Chronic, Mild
* Kidney	Transit Epithe	Hyperplasia	Moderate
		Inflammation	Suppurative, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose	Goblet Cell	Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
* Skin		Inflammation	Chronic, Mild
		Ulcer	Moderate
	[Inflammation TGLs = 3-21]		
	[Ulcer TGLs = 3-21]		
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - Intestine Large, Rectum Inflammation

Animal Note: TGLs 1,2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 189

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 281
HISTO: 109403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * 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 | | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- * Intestine Large, Colon
- * Intestine Small, Ileum

OBSERVATIONS

- | | | | |
|--------------------------|-----------|-----------------------------------|----------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | | Degeneration | Fatty, Minimal |
| | | Hyperplasia | Focal, Minimal |
| * Brain | | Pigmentation | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| * Liver | Bile Duct | Hyperplasia | Mild |
| * Lymph Node, Mesenteric | | Hemorrhage | Minimal |
| * Spleen | | Pigmentation | Mild |

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 190

TMT: 7
 DOSE: 50 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 714
 HISTO: 109404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------|-------------------|---------------------|------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Epididymis | * Harderian Gland | * Parathyroid Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Thyroid Gland |

OBSERVATIONS

- | | | | |
|--------------------------|--|-------------------------|---------------------|
| * Brain | | Compression | |
| | [Compression TGLs = 3-1] | | |
| * Esophagus | | Hyperkeratosis | Mild |
| | [Hyperkeratosis TGLs = 5-21] | | |
| * Eye | | Cataract | Minimal |
| | Note: There is marked hemorrhage surrounding the the cranial nerves. | | |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Hyperplasia | Moderate |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Mixed Cell Focus | |
| | | Necrosis | Focal, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mesenteric | | Hemorrhage | Minimal |
| * Mammary Gland | Duct | Ectasia | Mild |
| * Nose | | Inflammation | Chronic, Minimal |
| Oral Mucosa | | Squamous Cell Papilloma | |
| | [Squamous Cell Papilloma TGLs = 2-22] | | |
| * Pancreas | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 190

TMT: 7

SEX: Male

DAY ON TEST: 714

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109404

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLs = 4-1]	Pars Distalis	Adenoma	
* Prostate	Epithelium	Hyperplasia Inflammation	Mild Chronic, Marked
* Spleen		Pigmentation	Minimal
* Testes [Adenoma TGLs = 1-7]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 191

TMT: 7
 DOSE: 50 MG/KG

SEX: Male
 DISP: Natural Death

DAY ON TEST: 463
 HISTO: 109405

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Lung	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Spleen
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OBSERVATIONS

* Brain		Mineralization	Mild
		Necrosis	Moderate
Note: Necrosis-bilaterally symetrical, ventral mid-brain. Lesion includes vacuolation of neuropile, gliosis, and gitter cells REPLACEPLUS/- brown cytoplasmic pigment.			
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland	Duct	Ectasia	Minimal
Mesentery		Hemorrhage	Marked
[Hemorrhage TGLs = 3-21]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	Rathkes Cleft	Dilatation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1-7]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 191

TMT: 7

SEX: Male

DAY ON TEST: 463

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109405

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 192

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 337
HISTO: 109406

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Large, Rectum * Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Minimal
	Degeneration	Fatty, Minimal
* Heart	Cardiomyopathy	Mild
* Kidney	Mineralization	Mild
	Nephropathy	Minimal
* Lung	Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Atrophy	Minimal
* Spleen	Pigmentation	Mild
* Thyroid Gland	Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 193

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 135
HISTO: 109407

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Hyperplasia	Lymphoid, Mild
	[Hemorrhage TGLs = 3-3]		
	[Hyperplasia TGLs = 3-3]		
* Pancreas		Atrophy	Minimal
* Spleen		Pigmentation	Mild
* Thyroid Gland		Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 1,2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 194

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 340
HISTO: 109408

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Jejunum

INSUFFICIENT TISSUE

* Eye

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Minimal
* Eye			
Note: Tissue present on slide consists of the eye lids. The globe is not present.			
* Harderian Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
		Cyst	
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 194

TMT: 7

SEX: Male

DAY ON TEST: 340

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109408

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 195

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 309
HISTO: 109409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Necrosis	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Necrosis	Focal, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Hemorrhage	Marked
	Pancreatic	Necrosis	Lymphoid, Minimal
	Pancreatic	Pigmentation	Mild
	[Hemorrhage TGLs = 1-21]		
	[Pigmentation TGLs = 1-21]		
* Skin		Hemorrhage	Mild
		Hyperkeratosis	Mild
		Inflammation	Chronic, Mild

Note: Skin-hyperkeratotic lesion includes serocellular exudate.

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 195

TMT: 7

SEX: Male

DAY ON TEST: 309

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109409

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLs = 4-22]

[Hyperkeratosis TGLs = 5-22]

[Inflammation TGLs = 4-22]

* Spleen

Necrosis

Minimal

* Testes

Interstit Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 196

TMT: 7

SEX: Male

DAY ON TEST: 436

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109410

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Adrenal Medulla	* Intestine Small, Ileum	* Lymph Node, Mandibular
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum			

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Mild
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Pancreas		Atrophy	Moderate
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 197

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 157
HISTO: 109411

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Stomach, Forestomach	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Necrosis	Focal, Mild
* Pituitary Gland	Pars Distalis	Hemorrhage	Moderate
	Pars Distalis, Pars Intermed	Necrosis	Marked
* Salivary Glands		Necrosis	Moderate
	[Necrosis TGLs = 1-8]		
* Skin		Edema	Mild
	[Edema TGLs = 2-8]		
* Spleen		Pigmentation	Moderate
* Stomach, Glandular		Hemorrhage	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Pars Intermed Necrosis

CONTRIBUTORY CAUSE OF DEATH - Liver Necrosis

- Salivary Glands Necrosis

Animal Note: TGL 3=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 198

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 379
HISTO: 109412

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Liver
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

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

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Cyst	
* Spleen		Pigmentation	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
* Thyroid Gland		Ultimobranchial Cyst	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 199

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 222
HISTO: 109413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Heart
* Intestine Large, Cecum	* Intestine Large, Rectum	* Islets, Pancreatic	* Liver
* Lung	* Nose	* 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, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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INSUFFICIENT TISSUE

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Degeneration	Fatty, Mild
* Harderian Gland	Inflammation	Chronic, Minimal
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Lymph Node, Mesenteric	Hemorrhage	Minimal
* Pancreas	Atrophy	Minimal
* Spleen	Pigmentation	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 1,2,3=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 200

TMT: 7
DOSE: 50 MG/KG

SEX: Male
DISP: Natural Death

DAY ON TEST: 330
HISTO: 109414

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Rectum	* 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	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Duodenum * Intestine Small, Ileum

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Brain		Pigmentation	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
* Spleen		Pigmentation	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 201

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109415

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Mild
* Bone Marrow		Infiltration Cellular	Histiocyte, Marked
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 202

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 109416

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	Multiple
	[Ectasia TGLs = 1-8]		
	[Fibroadenoma TGLs = 2-21, 3-22]		
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Pigmentation	Moderate
* Uterus		Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLs = 4-7]		
	[Polyp Stromal TGLs = 5-7]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 203

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109417

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Minimal
* Clitoral Gland		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLs = 6-23]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroma	
	[Ectasia TGLs = 1-8]		
	[Fibroma TGLs = 2-21]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLs = 4-22]		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	[Adenoma TGLs = 5-1]		
* Salivary Glands		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 203

TMT: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109417

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

[Hyperplasia TGLs = 3-7]

Hyperplasia

Cystic, Moderate

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 204

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland [Hyperplasia TGLs = 1-8]		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung [Inflammation TGLs = 7-22]		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Mammary Gland [Ectasia TGLs = 2-8] [Fibroadenoma TGLs = 3-21]	Duct	Ectasia	Mild
		Fibroadenoma	
		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Thyroid Gland [Carcinoma TGLs = 5-3]	C Cell	Carcinoma	
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 204

TMT: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109418

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLs = 4-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 205

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Natural Death

DAY ON TEST: 677
 HISTO: 109419

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Thymus	* Trachea		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Thyroid Gland		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Marked
	[Leukemia Mononuclear TGLs = 6-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Lymph Node	Leukemia Mononuclear	
	Note: TGL 5-22 Celiac lymph node		
	[Leukemia Mononuclear TGLs = 5-22]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-5]		
* Mammary Gland	Duct	Ectasia	Mild
		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 2-21]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 205

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Natural Death

DAY ON TEST: 677
 HISTO: 109419

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Foreign Body	Minimal
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gl			
Note: The pars distalis region of the pituitary gland is present on slide 1 and 1.1			
* Skin		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1-6]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Stomach, Glandular		Erosion	Minimal
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Hyperplasia	Cystic, Mild
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 206

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109420

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * 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 | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|------------------------------------|----------------|-----------------------|---------------------|
| * Adrenal Cortex | | Adenoma | |
| [Adenoma TGLs = 5-10] | | | |
| * Clitoral Gland | | Adenoma | |
| * Harderian Gland | | Inflammation | Chronic, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic, Mild |
| * Mammary Gland | Duct | Ectasia | Mild |
| | | Fibroadenoma | Multiple |
| | | Hyperplasia | Mild |
| [Fibroadenoma TGLs = 1-21, 3-22] | | | |
| [Hyperplasia TGLs = 2-8] | | | |
| * Pituitary Gland | Pars Distalis | Cyst | |
| | Pars Distalis | Hyperplasia | Focal, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 206

TMT: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109420

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Moderate

* Uterus

Polyp Stromal

[Polyp Stromal TGLs = 4-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 207

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Natural Death

DAY ON TEST: 566
 HISTO: 109421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Clitoral Gland	* Esophagus
* Harderian Gland	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Adrenal Medulla	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Spleen	* Stomach, Glandular	

OBSERVATIONS

* Brain		Glioma Malignant	
		Mineralization	Mild
	[Glioma Malignant TGLs = 3-1]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Cyst	
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fibrosis	Moderate
	[Fibrosis TGLs = 2-21]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Ectasia	Mild
	[Ectasia TGLs = 1-8]		
* Pituitary Gland		Adenoma	
	Pars Distalis		

PRIMARY CAUSE OF DEATH - Brain Glioma Malignant

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 208

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109422

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, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration Hyperplasia	Fatty, Minimal Focal, Minimal
* Liver		Basophilic Focus Eosinophilic Focus Infiltration Cellular Mixed Cell Focus	Mixed Cell, Minimal
	[Eosinophilic Focus TGLs = 4-6] [Mixed Cell Focus TGLs = 4-6]		
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Marked Histiocyte, Minimal
	[Hyperplasia TGLs = 3-21]		
* Mammary Gland	Duct	Ectasia	Mild
	[Ectasia TGLs = 1-8]		
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis Pars Intermed	Adenoma Angiectasis	Moderate
	[Adenoma TGLs = 2-1]		
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Mild
* Thyroid Gland		Ultimobranchial Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 208

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109422

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Hyperplasia

Cystic, Minimal

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 209

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Bone Marrow | * Brain | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|--|---|---------------------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule
Degeneration
Hyperplasia | Mild
Fatty, Minimal
Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Clitoral Gland | | Hyperplasia | Mild |
| * Esophagus | | Diverticulum | |
| | [Diverticulum TGLs = 3-23] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Casts Protein | Minimal |
| * Liver | | Basophilic Focus
Eosinophilic Focus
Hepatodiaphragmatic Nodule
Infiltration Cellular | Mixed Cell, Mild |
| | [Basophilic Focus TGLs = 5-25] | | |
| | [Eosinophilic Focus TGLs = 4-24] | | |
| | [Hepatodiaphragmatic Nodule TGLs = 2-22] | | |
| * Lung | Alveolar Epith | Hyperplasia
Infiltration Cellular | Minimal
Histiocyte, Minimal |
| * Mammary Gland | Duct | Ectasia
Fibroadenoma
Fibrosis | Moderate
Marked |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
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First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 209

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109423

ORGAN AND ACCOUNTABLE SITE STATUS

	[Fibroadenoma TGLs = 1-21] [Fibrosis TGLs = 6-26]		
* Nose	Respirat Epith	Foreign Body Hyperplasia Inflammation	Mild Minimal Chronic, Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Skin	Subcut Tiss Epidermis	Fibrosis Hyperplasia Inflammation	Moderate Mild Chronic, Minimal
	Note: Inflammation and hpyerplasia-focal lesion. Lesion located on slide #26.		
	[Fibrosis TGLs = 6-26]		
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Mild
* Uterus		Polyp Stromal	

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 210

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109424

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Pancreas
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Lymphoma Malignant	
[Lymphoma Malignant TGLs = 4-3]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	
[Ectasia TGLs = 1-8]			
[Fibroadenoma TGLs = 2-21]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLs = 3-22]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Intermed	Angiectasis	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 210

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109424

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Cyst	
[Angiectasis	TGLs = 6-1]		
[Angiectasis	TGLs = 6-1]		
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate

Animal Note: TGL 5=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 211

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109425

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
[Adenoma TGLs = 3-7]			
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLs = 4-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
[Ectasia TGLs = 1-8]			
Mesentery			
Note: Mesentery-accessory spleen.			
* Nose		Foreign Body	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
		Pigmentation	Minimal
[Adenoma TGLs = 5-1]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 211

TMT: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109425

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Pigmentation

Moderate

* Uterus

Polyp Stromal

[Polyp Stromal TGLs = 2-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 212

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109426

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Mild
* Clitoral Gland		Carcinoma	
[Carcinoma TGLs = 1-21]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Eosinophilic Focus TGLs = 4-23]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
[Fibroadenoma TGLs = 2-22]			
* Nose		Foreign Body	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Moderate
		Cyst	
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
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Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
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First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 212

TMT: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109426

ORGAN AND ACCOUNTABLE SITE STATUS

Pars Distalis

Carcinoma

Pars Distalis

Cyst

Pars Distalis

Hyperplasia

Focal, Mild

Note: Carcinoma-Mass composed of minimally pleomorphic round cells and appeared to originate in Pars Intermedia with infiltration into the Pars Nervosa.

[Angiectasis TGLs = 5-1]

[Carcinoma TGLs = 5-1]

[Hyperplasia TGLs = 5-1]

* Skin

Cyst Epithelial Inclusion

Note: Cyst epithelial inclusion on slide # 9-1.

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Marked

* Uterus

Hyperplasia

Cystic, Mild

[Hyperplasia TGLs = 3-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
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 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 213

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland	Duct	Ectasia	Mild
		[Ectasia TGLs = 1-8]	
Mesentery	Fat	Necrosis	Mild
		[Necrosis TGLs = 3-21]	
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Minimal
* Salivary Glands		Atrophy	Minimal
* Spleen		Pigmentation	Moderate
* Uterus		Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 213

TMT: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109427

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 4-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 214

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109428

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Hypertrophy	Focal, Mild
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Hyperplasia	Lymphoid, Mild
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
		[Ectasia TGLs = 1-8]	
		[Fibroadenoma TGLs = 2-21]	
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
		[Cyst TGLs = 3-1]	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Thyroid Gland		Ultimobranchial Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 214

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 109428

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Hyperplasia

Cystic, Minimal

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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 alpha/beta Thujone mixture
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 215

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109429

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Moderate
* Heart		Leukemia Mononuclear	
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
		Mixed Cell Focus	
	[Leukemia Mononuclear TGLs = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Mammary Gland	Duct	Ectasia	Minimal
		Fibroadenoma	
	[Ectasia TGLs = 1-8]		
	[Fibroadenoma TGLs = 2-21]		
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
		Pigmentation	Minimal
	[Angiectasis TGLs = 5-1]		
	[Pigmentation TGLs = 5-1]		
* Salivary Glands		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 215

TMT: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109429

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 3-6]

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 216

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 109430

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hyperplasia	Minimal Fatty, Moderate Focal, Mild
* Brain		Compression	
* Clitoral Gland		Adenoma	
	[Adenoma TGLs = 2-8]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein Nephropathy	Mild Mild
* Liver		Basophilic Focus Eosinophilic Focus	
	[Eosinophilic Focus TGLs = 6-23]		
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia Fibroadenoma Hyperplasia	Mild Multiple Focal, Minimal
	[Fibroadenoma TGLs = 1-8, 3-21]		
* Nose		Foreign Body	Minimal
* Pancreas		Atrophy Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 216

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 109430

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Rathkes Cleft	Dilatation	Mild
[Adenoma TGLs = 5-1]			
* Salivary Glands		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	
[Polyp Stromal TGLs = 4-22]			

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 217

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109431

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	Multiple
		Hyperplasia	Focal, Mild
	[Fibroadenoma TGLs = 1-21,2-22]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 3-23]		
* Pancreas		Atrophy	Minimal
	Acinus	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 217

TMT: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109431

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Pancreas, acinus, hyperplasia-slide# 4.

* Pituitary Gland

Pars Distalis

Cyst

Pars Intermed

Hyperplasia

Minimal

[Cyst TGLs = 6-1]

* Spleen

Pigmentation

Mild

* Uterus

Cyst

Polyp Stromal

Note: TGL 4-25 Squamous epithelial cyst-cystic mass lined by squamous epithelium and filled with keratin, neutrophils and cellular debris.

[Cyst TGLs = 4-25]

[Polyp Stromal TGLs = 5-24]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 218

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 689
 HISTO: 109432

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Brain		Compression	
	[Compression TGLs = 7-1]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLs = 5-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Moderate
	[Ectasia TGLs = 2-8]		
* Pancreas		Atrophy	Mild
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
		Pigmentation	Minimal
	[Adenoma TGLs = 8-1]		
* Spleen		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 218

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 689
HISTO: 109432

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLs = 3-7]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: TGL 4 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 219

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109433

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|-------------------------------------|-----------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Mild |
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Casts Protein | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| | [Leukemia Mononuclear TGLs = 4-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Moderate |
| | | Infiltration Cellular | Histiocyte, Minimal |
| | | Leukemia Mononuclear | |
| | [Hyperplasia TGLs = 10-2] | | |
| | Lymph Node Mediastinal | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5-3] | | |
| * Mammary Gland | | Carcinoma | |
| | Duct | Ectasia | Mild |
| | | Hyperplasia | Mild |
| | [Carcinoma TGLs = 2-21] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 219

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 109433

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 1-8]		
* Ovary	Cyst	
* Pancreas	Atrophy	Minimal
	Cyst	
* Pituitary Gland	Pars Distalis	
[Adenoma TGLs = 8-1, 9-1]	Adenoma	
* Salivary Glands	Atrophy	Minimal
* Skin	Subcut Tiss	
[Fibroma TGLs = 7-22]		
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 3-6]		
* Uterus	Hyperplasia	Cystic, Moderate

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 220

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109434

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * 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 | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|------------------------------|----------------|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLs = 1-22] | | | |
| * Harderian Gland | | Inflammation | Chronic, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | | Casts Protein | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | | Mixed Cell Focus | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | Duct | Ectasia | Mild |
| | | Fibroadenoma | |
| | | Hyperplasia | Focal, Minimal |
| [Fibroadenoma TGLs = 2-21] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 5-1] | | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 220

TMT: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109434

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Minimal

* Uterus

Polyp Stromal

[Polyp Stromal TGLs = 3-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 221

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109435

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Brain		Compression	
* Clitoral Gland		Adenoma	
* Kidney		Casts Protein	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Hyperplasia	Moderate
	[Hyperplasia TGLs = 1-8]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Adenoma	

Note: TGL 3-1 This neoplasm is not invading surrounding tissues, but does display marked pleomorphism with anisokaryosis, anisocytosis and vacuolation of cytoplasm.

[Adenoma TGLs = 3-1]

[Adenoma TGLs = 3-1]

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 221

TMT: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109435

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Pigmentation

Moderate

* Uterus

Hyperplasia

Cystic, Mild

[Hyperplasia TGLs = 2-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 222

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	Ureter
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
	[Adenoma TGLs = 5-8]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	Multiple
	[Ectasia TGLs = 2-8]		
	[Fibroadenoma TGLs = 1-21, 3-22, 4-23]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 7-24]		
* Nose		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 222

TMT: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109436

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 9-1]

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Mild

* Thyroid Gland

C Cell

Adenoma

Animal Note: TGL 8=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 223

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109437

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * 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 | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|--|-----------------------------|----------------------------|
| * Adrenal Medulla | | Pheochromocytoma Complex | |
| * Clitoral Gland | | Adenoma | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Casts Protein | Minimal |
| | | Mesenchymal Tumor Malignant | |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| | [Mesenchymal Tumor Malignant TGLs = 3-5] | | |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic, Minimal |
| Lymph Node | Mediastinal | Carcinoma | Metastatic (Thyroid Gland) |
| | [Carcinoma TGLs = 6-3] | | |
| * Mammary Gland | Duct | Ectasia | Moderate |
| | | Fibroadenoma | |
| | | Hyperplasia | Moderate |
| | [Fibroadenoma TGLs = 1-21] | | |
| | [Hyperplasia TGLs = 4-8] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 223

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 109437

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	[Adenoma TGLs = 7-1]		
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Mild
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Carcinoma	
	[Carcinoma TGLs = 5-3]		
* Uterus		Hyperplasia	Cystic, Mild

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 224

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109438

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * 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 | * Parathyroid Gland | * Salivary Glands |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|------------------------------------|-----------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Mild |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | | Mixed Cell Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | Duct | Ectasia | Mild |
| | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 2-22, 3-23] | | |
| * Pancreas | | Cyst | |
| * Pituitary Gland | Pars Distalis | Angiectasis | Marked |
| | [Angiectasis TGLs = 4-1] | | |
| * Skin | | Hyperkeratosis | Marked |
| | Epidermis | Hyperplasia | Mild |
| | [Hyperkeratosis TGLs = 1-21] | | |
| | [Hyperplasia TGLs = 1-21] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 224

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 109438

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Hematopoietic Cell Proliferation	Mild
	Pigmentation	Marked
* Uterus	Hyperplasia	Cystic, Mild

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 225

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109439

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland | * Pituitary Gland |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|---------------------------------|---|--------------------------------|
| * Adrenal Cortex | | Degeneration
Hypertrophy | Fatty, Marked
Focal, Mild |
| | [Degeneration TGLs = 3-10] | | |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Bone Marrow | | Hyperplasia | Marked |
| * Clitoral Gland | | Carcinoma | |
| | [Carcinoma TGLs = 1-21] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Casts Protein
Nephropathy | Minimal
Minimal |
| * Liver | | Basophilic Focus
Infiltration Cellular | Mixed Cell, Minimal |
| | [Basophilic Focus TGLs = 4-6] | | |
| * Lung | Alveolar Epith | Hyperplasia
Infiltration Cellular | Minimal
Histiocyte, Minimal |
| * Mammary Gland | Duct | Ectasia
Fibroadenoma
Hyperplasia | Mild
Mild |
| | [Fibroadenoma TGLs = 5-22] | | |
| * Nose | Respirat Epith | Foreign Body
Hyperplasia | Minimal
Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 225

TMT: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109439

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Inflammation	Chronic, Minimal
* Salivary Glands	Atrophy	Moderate
* Spleen	Atrophy	Minimal
* Uterus	Hematopoietic Cell Proliferation	Mild
	Polyp Stromal	

[Polyp Stromal TGLs = 2-7]

Animal Note: TGL 6=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 226

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|---|----------------|--|---|
| * Adrenal Cortex | | Degeneration
Hyperplasia
Adenoma | Fatty, Moderate
Focal, Mild |
| * Clitoral Gland | | | |
| Note: Right clitoral gland-mild hyperplasia.
[Adenoma TGLs = 1-21] | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Hyperplasia | Minimal |
| * Kidney | | Mineralization
Nephropathy | Minimal
Minimal |
| * Liver | | Basophilic Focus
Infiltration Cellular | Mixed Cell, Minimal |
| [Basophilic Focus TGLs = 3-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia
Infiltration Cellular
Inflammation | Minimal
Histiocyte, Minimal
Chronic, Mild |
| * Lymph Node, Mandibular | | Hyperplasia | Lymphoid, Minimal |
| * Mammary Gland | Duct | Ectasia
Hyperplasia | Mild
Mild |
| * Ovary | | Cyst | |
| [Cyst TGLs = 2-7] | | | |
| * Pancreas | | Atrophy
Cyst | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 226

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109440

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Hematopoietic Cell Proliferation	Mild
	Pigmentation	Mild
* Uterus	Hyperplasia	Cystic, Mild

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 227

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109441

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, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia Leukemia Mononuclear	Focal, Minimal
* Bone Marrow		Hyperplasia	Mild
* Kidney		Mineralization Nephropathy	Minimal Minimal
* Liver		Basophilic Focus Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia Fibroadenoma Hyperplasia	Minimal Multiple Minimal
	[Fibroadenoma TGLs = 3-22, 5-23]		
* Ovary		Granulosa Cell Tumor Malignant	
	[Granulosa Cell Tumor Malignant TGLs = 6-24]		
* Pancreas		Atrophy Cyst	Minimal
* Skin		Basal Cell Adenoma	
	[Basal Cell Adenoma TGLs = 1-21]		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 227

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109441

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Pigmentation
Hyperplasia

Minimal
Cystic, Minimal

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 228

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLs = 4-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
		Hyperplasia	Minimal
	[Ectasia TGLs = 1-8]		
	[Fibroadenoma TGLs = 2-21]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 3-22]		
* Pancreas		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 228

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109442

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Pigmentation	Marked

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 229

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109443

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 Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Hyperplasia	Minimal Focal, Minimal
* Intestine Large, Rectum [Adenoma TGLs = 7-25]		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Clear Cell Focus Infiltration Cellular Leukemia Mononuclear	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular Leukemia Mononuclear	Mild Histiocyte, Minimal
* Lymph Node, Mesenteric			
* Mammary Gland	Duct	Ectasia Fibroadenoma Hyperplasia	Mild Multiple Mild
		[Fibroadenoma TGLs = 2-21, 3-22, 4-23, 5-24] [Hyperplasia TGLs = 1-8]	
Mesentery	Fat	Necrosis	Mild
		[Necrosis TGLs = 8-26]	
* Pancreas		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 229

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109443

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLs = 9-1]	Acinus Pars Distalis	Hyperplasia Adenoma	Focal, Minimal
* Spleen [Leukemia Mononuclear TGLs = 6-6]		Leukemia Mononuclear Pigmentation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hyperplasia	Cystic, Mild

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 230

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Clitoral Gland		Adenoma	
	[Adenoma TGLs = 1-8]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLs = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
	[Fibroadenoma TGLs = 2-21, 3-22]		
* Spleen		Pigmentation	Mild
* Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 231

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Natural Death

DAY ON TEST: 545
 HISTO: 109445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Intestine Large, Rectum	* Islets, Pancreatic
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Trachea	* Uterus		

MISSING

* Lymph Node, Mandibular	* Thymus
--------------------------	----------

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Thyroid Gland	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Liver	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
	Hepatocyte	Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLs = 7-21]	Vacuolization Cytoplasmic	Moderate
	[Leukemia Mononuclear TGLs = 6-6]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Deep Cervical	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 8-3]		
	[Leukemia Mononuclear TGLs = 9-22]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4-5]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 231

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 545
HISTO: 109445

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland	Duct	Ectasia	Mild
		Hyperplasia	Moderate
	[Hyperplasia TGLs = 1-8]		
* Nose		Thrombosis	
* Ovary		Leukemia Mononuclear	
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
	Rathkes Cleft	Dilatation	Minimal
	[Angiectasis TGLs = 10-1]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3-6]		
* Stomach, Forestomach		Edema	Mild
		Ulcer	Marked
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 232

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 652
 HISTO: 109446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Thyroid Gland	* Trachea	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Leukemia Mononuclear	
		Necrosis	Mild
[Leukemia Mononuclear	TGLs = 12-10]		
* Adrenal Medulla		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 12-10]		
* Bone	Femur	Osteopetrosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 18-1]		
* Clitoral Gland		Leukemia Mononuclear	
* Eye		Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
[Leukemia Mononuclear	TGLs = 11-24]		
* Liver	Hepatocyte	Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Marked
[Leukemia Mononuclear	TGLs = 14-6]		
* Lung		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 232

TMT: 2

SEX: Female

DAY ON TEST: 652

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 109446

ORGAN AND ACCOUNTABLE SITE STATUS

	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 17-25]		
	[Leukemia Mononuclear TGLs = 6-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 13-5]		
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
	[Ectasia TGLs = 3-8]		
	[Fibroadenoma TGLs = 2-21]		
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Mild
	[Leukemia Mononuclear TGLs = 5-23]		
	[Necrosis TGLs = 5-23]		
* Ovary		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Rathkes Cleft	Dilatation	Minimal
		Leukemia Mononuclear	
	[Adenoma TGLs = 20-1]		
	[Angiectasis TGLs = 19-1]		
	[Leukemia Mononuclear TGLs = 20-1]		
* Salivary Glands		Leukemia Mononuclear	
* Skin	Subcut Tiss	Fibroma	
		Leukemia Mononuclear	
	Note: TGL 4-22 Lesion included marked necrosis and leukemia.		
	[Fibroma TGLs = 4-22]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7-6]		
* Stomach, Forestomach		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 15-4]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 232

TMT: 2

SEX: Female

DAY ON TEST: 652

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 109446

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular	Edema	Moderate
	Leukemia Mononuclear	
	Ulcer	Marked
[Leukemia Mononuclear TGLs = 15-4]		
[Ulcer TGLs = 15-4]		
* Thymus	Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 16-3]		
* Urinary Bladder	Leukemia Mononuclear	
* Uterus	Leukemia Mononuclear	
	Polyp Stromal	
[Leukemia Mononuclear TGLs = 9-7]		
[Polyp Stromal TGLs = 9-7]		
Vagina	Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 233

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Natural Death

DAY ON TEST: 623
 HISTO: 109447

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Islets, Pancreatic	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Thyroid Gland	

OBSERVATIONS

* Brain		Compression	
[Compression TGLs = 6-1]			
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLs = 3-5]			
* Mammary Gland	Duct	Ectasia	Moderate
[Ectasia TGLs = 1-8]			
* Nose		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Pigmentation	Moderate
[Adenoma TGLs = 5-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 233

TMT: 2

SEX: Female

DAY ON TEST: 623

DOSE: 0 MG/KG

DISP: Natural Death

HISTO: 109447

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: TGL 2,4 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 234

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Brain		Compression	
	[Compression TGLs = 5-1]		
* Clitoral Gland		Adenoma	
	[Adenoma TGLs = 2-8]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Moderate
	Transit Epithe	Hyperplasia	Moderate
		Infarct	Moderate
		Nephropathy	Moderate
	Note: The renal lesions are more severe in the right kidney than in the left kidney.		
	[Infarct TGLs = 7-21, 4-5]		
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Hyperplasia	Moderate
	[Hyperplasia TGLs = 1-8]		
* Nose		Inflammation	Chronic, Mild
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 234

TMT: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109448

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 6-1]		
* Salivary Glands	Atrophy	Minimal
* Spleen	Pigmentation	Moderate
Tongue	Hyperplasia	Mild
[Hyperplasia TGLs = 8-22]		
* Uterus	Hyperplasia	Cystic, Mild

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 235

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 677
 HISTO: 109449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	Vagina		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hematopoietic Cell Proliferation	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
[Adenoma TGLs = 2-8]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Infarct	Mild
		Inflammation	Suppurative, Mild
		Nephropathy	Minimal
[Infarct TGLs = 4-5]			
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
Note: TGL 8-22 Abnormal fissures and lobulations are not routinely tabulated.			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 235

TMT: 2

SEX: Female

DAY ON TEST: 677

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 109449

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLs = 3-21, 11-24]			
[Hyperplasia TGLs = 1-8]			
* Ovary		Cyst	
[Cyst TGLs = 6-7]			
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Rathkes Cleft	Dilatation	Minimal
[Cyst TGLs = 12-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
	Lymph Follic	Hyperplasia	Minimal
* Uterus		Hyperplasia	Cystic, Minimal
Vagina			

Note: TGL 7-7 Vaginal epithelium-superficial cells are enlarged with pale, vacuolated cytoplasm. Neutrophils in mucosa and lumen. Physiologic change.

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 236

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * 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 | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|------------------------|---------------------------------------|--|---|
| * Adrenal Cortex | | Degeneration
Hyperplasia
Hypertrophy
Cardiomyopathy
Nephropathy
Basophilic Focus
Clear Cell Focus
Infiltration Cellular | Fatty, Minimal
Focal, Mild
Focal, Mild
Minimal
Minimal
Mixed Cell, Minimal |
| * Heart | | | |
| * Kidney | | | |
| * Liver | | | |
| | [Basophilic Focus TGLs = 1-6, 1-22] | | |
| | [Clear Cell Focus TGLs = 1-6, 1-22] | | |
| * Lung | Alveolar Epith | Hyperplasia
Infiltration Cellular | Minimal
Histiocyte, Minimal |
| * Mammary Gland | Duct | Ectasia | Mild |
| | [Ectasia TGLs = 2-21] | | |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Cyst | |
| * Spleen | | Pigmentation | Moderate |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Minimal |
| * Thyroid Gland | Bilateral, C Cell | Adenoma | |
| | [Adenoma TGLs = 3-3] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 237

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hyperplasia	Focal, Marked
* Clitoral Gland		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
	[Hepatodiaphragmatic Nodule		
* Lung	TGLs = 3-21]		
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
	[Ectasia TGLs = 1-8]		
	[Fibroadenoma TGLs = 4-22]		
* Pituitary Gland	Pars Distalis	Cyst	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 237

TMT: 2

SEX: Female

DAY ON TEST: 730

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109451

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Pars Distalis	Hyperplasia	Focal, Minimal
* Uterus		Pigmentation	Moderate
		Hyperplasia	Cystic, Marked
[Hyperplasia TGLs = 2-7]			

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 238

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hyperplasia	Focal, Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Mild
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Mixed Cell Focus TGLs = 7-6]		
	[Vacuolization Cytoplasmic TGLs = 7-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Marked
		Fibroadenoma	Multiple
		Hyperplasia	Moderate
	[Ectasia TGLs = 4-8,5-23]		
	[Fibroadenoma TGLs = 2-21, 3-22]		
	[Hyperplasia TGLs = 4-8]		
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 238

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 109452

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLs = 8-1]	Pars Distalis	Adenoma	
* Spleen		Pigmentation	Mild
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Moderate
* Uterus [Hyperplasia TGLs = 6-7]		Hyperplasia	Cystic, Mild

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 239

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 579
 HISTO: 109453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Intestine Large, Cecum	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Compression	
* Clitoral Gland		Cyst	
[Cyst TGLs = 3-8]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Mild
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
		Necrosis	Focal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Mixed Cell Focus TGLs = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Carcinoma	
	Duct	Ectasia	Mild
[Carcinoma TGLs = 1-21]			
[Ectasia TGLs = 4-8]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 5-22]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 239

TMT: 2

SEX: Female

DAY ON TEST: 579

DOSE: 0 MG/KG

DISP: Moribund Sacrifice

HISTO: 109453

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
Note: TGL 7-1 Pituitary gland adenoma is made up of markedly pleomorphic cells with anisocytosis, anisokaryosis, and 0 to 1 mitotic figure/40x field. [Adenoma TGLs = 7-1]			
* Spleen	Lymph Follic	Hyperplasia Pigmentation	Minimal Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland		Degeneration	Cystic, Minimal
Tissue NOS	Fat, Mediastinum	Necrosis	Mild
[Necrosis TGLs = 8-23]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 240

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 631
 HISTO: 109454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* 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, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Compression	
		Pigmentation	Minimal
	[Compression TGLs = 4-1]		
* Clitoral Gland		Hyperplasia	Mild
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
		Casts Protein	Mild
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Eosinophilic Focus TGLs = 7-23]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Hyperplasia	Mild
	[Hyperplasia TGLs = 1-8]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 2-21]		
* Nose		Foreign Body	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 240

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 631
HISTO: 109454

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Goblet Cell	Hyperplasia Inflammation Atrophy	Minimal Chronic, Mild Mild
* Pituitary Gland [Adenoma TGLs = 5-1]	Pars Distalis	Adenoma	
* Spleen	Lymph Follic	Atrophy Hematopoietic Cell Proliferation Pigmentation	Minimal Mild Moderate
* Uterus [Polyp Stromal TGLs = 6-22]		Polyp Stromal	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 241

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 662
HISTO: 109455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Thyroid Gland	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Brain		Compression	
[Compression TGLs = 7-1]			
* Clitoral Gland		Adenoma	
[Adenoma TGLs = 2-8]			
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Mammary Gland	Duct	Ectasia	Mild
[Ectasia TGLs = 1-8]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 5-22]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 8-1]			
* Skin		Basal Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 241

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 662
HISTO: 109455

ORGAN AND ACCOUNTABLE SITE STATUS

[Basal Cell Carcinoma TGLs = 3-21]
* Spleen Lymph Follic

Atrophy
Pigmentation

Mild
Marked

[Atrophy TGLs = 4-6]

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 242

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 499
HISTO: 109456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Harderian Gland	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Thyroid Gland			

OBSERVATIONS

* Brain		Compression	
[Compression TGLs = 6-1]			
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
Note: TGL 3-21 Abnormal fissures and lobulations are not routinely tabulated.			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
[Hyperplasia TGLs = 1-8]		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 5-1]			
* Spleen		Pigmentation	Marked
* Uterus		Polyp Stromal	
[Polyp Stromal TGLs = 2-7]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: TGL 4 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 243

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 462
HISTO: 109457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Thyroid Gland			

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule	TGLs = 1-21]		
* Mammary Gland	Duct	Ectasia	Minimal
* Pituitary Gland	Pars Intermed	Cyst	
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 244

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 452
 HISTO: 109458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Osteosarcoma	
Note: TGL 1-21 Osteosarcoma, telangiectatic type (Similar to lesion in PATHOLOGY OF THE FISCHER RAT pg 218, 219. Boorman, G.A., et al. 1990). [Osteosarcoma TGLs = 1-21]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Rathkes Cleft	Dilatation	Minimal
[Angiectasis TGLs = 2-1]			
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - Bone Osteosarcoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 245

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Natural Death

DAY ON TEST: 547
 HISTO: 109459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-------------------|-----------|-------------------|--------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Harderian Gland | * Heart | * Lung | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Skin | * Stomach, Forestomach |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

- | | | |
|--------------------------|---------------------|-----------------|
| * Lymph Node, Mandibular | * Parathyroid Gland | * Thyroid Gland |
|--------------------------|---------------------|-----------------|

AUTO PRECLUDES DIAG.

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Eye | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Pancreas |
| * Spleen | * Stomach, Glandular | | |

OBSERVATIONS

- | | | | |
|-------------------|---------------|------------------|----------------|
| * Bone Marrow | | Hyperplasia | Marked |
| * Liver | | Basophilic Focus | |
| * Mammary Gland | Duct | Ectasia | Mild |
| * Pituitary Gland | Pars Distalis | Cyst | |
| | Rathkes Cleft | Dilatation | Minimal |
| * Salivary Glands | | Atrophy | Minimal |
| * Uterus | | Hyperplasia | Cystic, Marked |
| | | Polyp Stromal | |

[Hyperplasia TGLs = 2-7]
 [Polyp Stromal TGLs = 1-7]

PRIMARY CAUSE OF DEATH - Uterus Polyp Stromal

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 246

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109460

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * 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 |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| | | Hyperplasia | Focal, Mild |
| | | Hypertrophy | Focal, Mild |
| * Clitoral Gland | | Hyperplasia | Moderate |
| * Harderian Gland | | Inflammation | Chronic, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | [Basophilic Focus TGLs = 3-6] | | |
| | [Hepatodiaphragmatic Nodule TGLs = 4-21] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | Duct | Ectasia | Moderate |
| | | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 1-8] | | |
| * Pancreas | | Atrophy | Minimal |
| | | Cyst | |
| * Pituitary Gland | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 246

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 109460

ORGAN AND ACCOUNTABLE SITE STATUS

	Rathkes Cleft	Dilatation	Mild
	Pars Distalis	Ganglioneuroma	
		Pigmentation	Mild
	[Adenoma TGLs = 5-1]		
	[Ganglioneuroma TGLs = 5-1]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 2-7]		

Animal Note: TGL 6=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 247

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Moderate Fatty, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Cyst	
	[Cyst TGLs = 2-8]		
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Mineralization Nephropathy	Minimal Minimal
* Liver		Basophilic Focus Hyperplasia Leukemia Mononuclear	Minimal
	Bile Duct		
	[Leukemia Mononuclear TGLs = 8-6]		
* Lung		Infiltration Cellular Leukemia Mononuclear Leukemia Mononuclear	Histiocyte, Minimal
	Lymph Node		
	[Leukemia Mononuclear TGLs = 10-3]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Ectasia Fibroadenoma	Mild Multiple
	Duct		
	[Ectasia TGLs = 1-8]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 247

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 109461

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLs = 3-21, 4-22, 5-23]		
Mesentery	Fat	Necrosis
[Necrosis TGLs = 7-24]		Mild
* Pancreas		Atrophy
* Pituitary Gland	Pars Distalis	Adenoma
[Adenoma TGLs = 11-1]		
* Skin		Cyst Epithelial Inclusion
* Spleen		Leukemia Mononuclear
[Leukemia Mononuclear TGLs = 6-6]		
* Thymus		Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 248

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109462

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Clitoral Gland	Bilateral	Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLs = 4-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Ectasia	Moderate
[Ectasia TGLs = 3-5]			
* Mammary Gland	Duct	Ectasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 5-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Carcinoma	
* Uterus		Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 248

TMT: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 MG/KG

DISP: Terminal Sacrifice

HISTO: 109462

ORGAN AND ACCOUNTABLE SITE STATUS

Polyp Stromal

[Hyperplasia TGLs = 1-7]

[Polyp Stromal TGLs = 2-21]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 249

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Clitoral Gland		Hyperplasia	Mild
	[Hyperplasia TGLs = 1-8]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Leukemia Mononuclear	
	Note: TGL 2-6 This was an early lesion.		
	[Leukemia Mononuclear TGLs = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Atrophy	Mild
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
* Pancreas		Cyst	
* Spleen		Leukemia Mononuclear	
		Pigmentation	Mild
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 250

TMT: 2
 DOSE: 0 MG/KG

SEX: Female
 DISP: Natural Death

DAY ON TEST: 659
 HISTO: 109464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Clitoral Gland	* Esophagus
* Harderian Gland	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Ovary	* Salivary Glands	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Thyroid Gland			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Necrosis	Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7-1]		
* Eye		Hemorrhage Inflammation	Moderate Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2-5]		
* Liver		Basophilic Focus Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-6]		
* Lung		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
	[Leukemia Mononuclear TGLs = 6-2]		
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Mammary Gland		Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 250

TMT: 2
DOSE: 0 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 659
HISTO: 109464

ORGAN AND ACCOUNTABLE SITE STATUS

	Duct	Ectasia Hyperplasia	Minimal Mild
	[Adenoma TGLs = 1-8]		
* Nose		Inflammation	Chronic, Mild
* Pancreas		Atrophy Cyst	Mild
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Fibrosis Hemorrhage Leukemia Mononuclear	Moderate Moderate
	[Hemorrhage TGLs = 3-21]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thymus		Ectopic Parathyroid Gland	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
 CONTRIBUTORY CAUSE OF DEATH - Spleen Hemorrhage

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 251

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109465

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
	[Adenoma TGLs = 2-26]		
* Harderian Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Necrosis	Focal, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	Multiple
	[Ectasia TGLs = 1-8]		
	[Fibroadenoma TGLs = 3-21, 4-22, 5-23]		
* Pituitary Gland	Pars Distalis	Cyst	
	[Cyst TGLs = 9-1]		
* Spleen		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 251

TMT: 4

SEX: Female

DAY ON TEST: 730

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109465

ORGAN AND ACCOUNTABLE SITE STATUS

Tongue		Hyperplasia	Moderate
[Hyperplasia TGLs = 8-27]			
* Uterus	Fat	Necrosis	Mild
		Polyp Stromal	
[Necrosis TGLs = 6-24]			
[Polyp Stromal TGLs = 7-25]			

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 252

TMT: 4

SEX: Female

DAY ON TEST: 730

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109466

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Ovary | * Parathyroid Gland | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- | | | | |
|--------------------------|--|-----------------------|--------------------------|
| * Adrenal Cortex | | Adenoma | |
| * Bone | | Leukemia Mononuclear | Metastatic (Bone Marrow) |
| | Note: Leukemia cells from the bone marrow have infiltrated the periosteum and surrounding skeletal muscle. | | |
| | Note: Leukemia mononuclear (systemic lesion) was not available on TDMS for bone. Therefore this lesion was entered as a metastatic neoplasm. | | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| | [Leukemia Mononuclear TGLs = 2-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | Duct | Ectasia | Mild |
| | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1-21, 5-23] | | |
| Mesentery | Fat | Necrosis | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 252

TMT: 4

SEX: Female

DAY ON TEST: 730

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109466

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLs = 3-22]

* Nose	Respirat Epith	Foreign Body	Mild
		Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
* Salivary Glands		Atrophy	Mild
		Inflammation	Chronic, Mild
		Mineralization	Minimal
* Spleen		Leukemia Mononuclear	
* Uterus		Polyp Stromal	

[Polyp Stromal TGLs = 4-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 253

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109467

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	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Clitoral Gland		Hyperplasia	Mild
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
		Hyperplasia	Mild
		[Ectasia TGLs = 2-8]	
		[Fibroadenoma TGLs = 1-21]	
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Cyst	
	Rathkes Cleft	Dilatation	Minimal
	Pars Distalis	Hyperplasia	Focal, Marked
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 254

TMT: 4

SEX: Female

DAY ON TEST: 412

DOSE: 12.5 MG/KG

DISP: Natural Death

HISTO: 109468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Stomach, Glandular
* Thyroid Gland			

OBSERVATIONS

* Liver		Basophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Ovary		Cyst	
[Cyst TGLs = 3-7]			
* Pancreas		Atrophy	Minimal
* Spleen	Lymph Follic	Atrophy	Mild
		Pigmentation	Mild
* Uterus		Polyp Stromal	

Note: TGL 4-22 Lesion included marked necrosis and hemorrhage.

[Polyp Stromal TGLs = 4-22]

PRIMARY CAUSE OF DEATH

- Uterus Polyp Stromal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 255

TMT: 4

SEX: Female

DAY ON TEST: 601

DOSE: 12.5 MG/KG

DISP: Natural Death

HISTO: 109469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Lung	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Pancreas	* Stomach, Glandular	* Thyroid Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Marked
	Mediastinal	Pigmentation	Mild
	[Hyperplasia TGLs = 3-3]		
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
	[Ectasia TGLs = 1-8]		
	[Fibroadenoma TGLs = 2-21]		
* Nose		Inflammation	Chronic, Mild
Oral Mucosa		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLs = 4-22]		
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH - Oral Mucosa Squamous Cell Papilloma

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 256

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 689
 HISTO: 109470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Marked
		Degeneration	Fatty, Mild
* Brain		Compression	
		Pigmentation	Minimal
	[Compression TGLs = 4-1]		
* Harderian Gland		Inflammation	Chronic, Minimal
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
		Casts Protein	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
		Hyperplasia	Moderate
	[Fibroadenoma TGLs = 1-21]		
	[Hyperplasia TGLs = 2-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3-1]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 256

TMT: 4

SEX: Female

DAY ON TEST: 689

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109470

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Keratoacanthoma	
[Keratoacanthoma TGLs = 6-22]		
* Spleen	Hematopoietic Cell Proliferation	Minimal
	Pigmentation	Marked
* Uterus	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 257

TMT: 4

SEX: Female

DAY ON TEST: 603

DOSE: 12.5 MG/KG

DISP: Natural Death

HISTO: 109471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Thyroid Gland		

OBSERVATIONS

* Brain		Compression	
	[Compression TGLs = 8-1]		
* Liver		Basophilic Focus	
	[Basophilic Focus TGLs = 6-6]	Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLs = 5-23]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Marked
		Fibroadenoma	
		Hyperplasia	Minimal
	[Ectasia TGLs = 3-8]		
	[Fibroadenoma TGLs = 1-21, 2-22]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 7-1]		
* Spleen		Pigmentation	Marked
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 258

TMT: 4

SEX: Female

DAY ON TEST: 127

DOSE: 12.5 MG/KG

DISP: Natural Death

HISTO: 109472

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, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Thymus
--------------------------	--------------------------	----------------------------	----------

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Lung	Hyperplasia	Mild
Note: Lung-hyperplasia of mesothelium cells lining pleural surface of the lung.		
* Spleen	Hematopoietic Cell Proliferation	Mild
	Pigmentation	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: Cause of death attributed to the gross lesion of chylothorax.

Animal Note: TGL 2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 259

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* 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
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	
[Compression TGLs = 9-1]			
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLs = 7-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	Multiple
		Hyperplasia	Moderate
Note: Slide #8-fibroadenoma in mammary gland surrounding clitoral gland.			
[Fibroadenoma TGLs = 2-21, 3-22, 4-23, 5-24]			
[Hyperplasia TGLs = 1-8]			
Mesentery			
Note: Accessory spleen in mesenteric adipose tissue slide #7.			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 8-1]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 259

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109473

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Minimal
	Lymph Follic	Hyperplasia	Minimal
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Marked
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 6-25]		

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 260

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109474

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	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hyperplasia	Focal, Moderate
* Clitoral Gland		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Marked
Note: Adenoma (slide #2).			
[Hyperplasia TGLs = 6-25]			
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	Multiple
[Ectasia TGLs = 1-8]			
[Fibroadenoma TGLs = 2-21, 3-22, 7-26]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 4-23, 5-24]			
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 260

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109474

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Pigmentation	Moderate
* Thymus		Thymoma Benign	
* Uterus		Hyperplasia	Cystic, Minimal

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 261

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Brain		Compression	
* Clitoral Gland		Hyperplasia	Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Moderate
		Hyperplasia	Moderate
	[Hyperplasia TGLs = 1-8, 2-21]		
* Nose		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3-1]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 261

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109475

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Hyperplasia

Cystic, Mild

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 262

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mesenteric | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------------------|---------------------|
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Brain | | Pigmentation | Minimal |
| * Clitoral Gland | | Adenoma | |
| | [Adenoma TGLs = 1-8] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | [Basophilic Focus TGLs = 3-6] | | |
| | [Hepatodiaphragmatic Nodule TGLs = 4-21] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | Duct | Ectasia | Mild |
| | [Ectasia TGLs = 2-8] | | |
| * Nose | | Foreign Body | Minimal |
| | | Inflammation | Chronic, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 262

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109476

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Uterus

Hyperplasia

Cystic, Minimal

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 263

TMT: 4

SEX: Female

DAY ON TEST: 663

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109477

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Harderian Gland		Inflammation	Chronic, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Leukemia Mononuclear	
Note: Liver-leukemia, This was an early lesion.			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
[Ectasia TGLs = 2-8]			
[Fibroadenoma TGLs = 1-21]			
* Pancreas		Atrophy	Minimal
		Cyst	
* Salivary Glands		Atrophy	Minimal
		Mineralization	Minimal
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 263

TMT: 4

SEX: Female

DAY ON TEST: 663

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109477

ORGAN AND ACCOUNTABLE SITE STATUS

Pigmentation

Minimal

Note: Spleen, leukemia-this is an early lesion.

Hyperplasia

Cystic, Minimal

* Uterus

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 264

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Clitoral Gland	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration Hyperplasia	Fatty, Mild Focal, Minimal
* Adrenal Medulla		Hyperplasia	Marked
* Brain		Compression	
	[Compression TGLs = 5-1]		
* Eye	Retina	Cataract Degeneration	Minimal Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Hepatodiaphragmatic Nodule Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLs = 2-6]		
	[Hepatodiaphragmatic Nodule TGLs = 6-21]		
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular Inflammation	Minimal Histiocyte, Minimal Chronic, Minimal
	[Inflammation TGLs = 3-2]		
* Mammary Gland	Duct	Ectasia	Mild
* Nose	Respirat Epith	Foreign Body Hyperplasia	Marked Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 264

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109478

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Nose, foreign body-fungal hyphae.		Inflammation	Chronic, Moderate
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	[Adenoma TGLs = 4-1]		
* Spleen		Pigmentation	Moderate
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 1-7]		

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 265

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 688
 HISTO: 109479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Moderate
* Brain		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 10-1]		
* Eye	Bilateral	Edema	Marked
		Hemorrhage	Marked
	Bilateral	Retinal Detachment	Marked
	[Edema TGLs = 12-44]		
	[Hemorrhage TGLs = 12-44]		
	[Retinal Detachment TGLs = 12-44]		
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Hepatodiaphragmatic Nodule TGLs = 13-24]		
	[Leukemia Mononuclear TGLs = 8-6]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 265

TMT: 4

SEX: Female

DAY ON TEST: 688

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109479

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular Leukemia Mononuclear	Minimal Histiocyte, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6-5, 7-23]		
* Mammary Gland	Duct	Ectasia Fibroadenoma Hyperplasia	Mild Moderate
	[Fibroadenoma TGLs = 3-21]		
	[Hyperplasia TGLs = 2-8]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLs = 4-22]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 9-1]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-6]		
* Stomach, Forestomach	Epithelium	Hyperplasia Ulcer	Mild Minimal
* Stomach, Glandular		Erosion	Moderate
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

Animal Note: TGL 11=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 266

TMT: 4
DOSE: 12.5 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 540
HISTO: 109480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	Vagina		

MISSING

* Lymph Node, Mandibular	* Thymus
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AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
--------------------------	----------------------------	----------

OBSERVATIONS

* Adrenal Cortex		Degeneration Necrosis	Fatty, Moderate Minimal
[Degeneration TGLs = 4-10] [Necrosis TGLs = 4-10]			
* Bone Marrow		Hyperplasia	Marked
* Eye		Inflammation	Acute, Mild
* Heart		Cardiomyopathy	Minimal
* Liver	Kupffer Cell Hepatocyte	Pigmentation Vacuolization Cytoplasmic	Mild Mild
* Lung		Inflammation	Suppurative, Mild
[Inflammation TGLs = 7-2]			
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Marked
[Hyperplasia TGLs = 6-3]			
* Mammary Gland	Duct	Ectasia Fibroadenoma Hyperplasia	Mild Marked
[Fibroadenoma TGLs = 2-21] [Hyperplasia TGLs = 1-8]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 266

TMT: 4

SEX: Female

DAY ON TEST: 540

DOSE: 12.5 MG/KG

DISP: Natural Death

HISTO: 109480

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Inflammation	Chronic, Marked
Oral Mucosa		Inflammation	Chronic Active, Marked
[Inflammation	TGLs = 9-9, 9-9-1, 14-25]		
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
[Cyst	TGLs = 10-1]		
* Spleen		Hematopoietic Cell Proliferation	Marked
		Inflammation	Moderate
		Necrosis	Marked
		Pigmentation	Moderate
[Inflammation	TGLs = 3-22]		
[Necrosis	TGLs = 3-22]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
Tongue		Ulcer	Marked
[Ulcer	TGLs = 8-23]		
Tooth		Degeneration	Mild
[Degeneration	TGLs = 11-9-1]		

PRIMARY CAUSE OF DEATH - Oral Mucosa Inflammation

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 267

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	Multiple
		Hyperplasia	Mild
	[Fibroadenoma TGLs = 2-21, 3-22]		
	[Hyperplasia TGLs = 1-8]		
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6-1]		
* Salivary Glands		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 267

TMT: 4

SEX: Female

DAY ON TEST: 730

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109481

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

[Hyperplasia TGLs = 4-7]

Hyperplasia

Cystic, Moderate

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 268

TMT: 4

SEX: Female

DAY ON TEST: 721

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109482

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Brain		Compression	
[Compression TGLs = 4-1]			
* Clitoral Gland		Adenoma	
[Adenoma TGLs = 1-8]			
* Eye		Cataract	Moderate
* Kidney		Casts Protein	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
[Mixed Cell Focus TGLs = 6-22]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland	Duct	Ectasia	Moderate
		Hyperplasia	Minimal
[Ectasia TGLs = 2-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-1]			
* Spleen		Pigmentation	Moderate
* Thyroid Gland		Degeneration	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 268

TMT: 4

SEX: Female

DAY ON TEST: 721

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109482

ORGAN AND ACCOUNTABLE SITE STATUS

Tongue

Hyperplasia

Mild

[Hyperplasia TGLs = 5-21]

* Uterus

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 269

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Hyperplasia	Mild
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	Multiple
		Hyperplasia	Mild

Note: TGL 3-22 Lesion included focal area of stromal atypia (pleomorphic spindle cells- anisocytosis, anisokaryosis, vesicular nuclei, pale basophilic cytoplasm).

[Fibroadenoma TGLs = 1-21, 3-22]

[Hyperplasia TGLs = 2-8]

* Ovary Cyst

[Cyst TGLs = 4-7]

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 269

TMT: 4

SEX: Female

DAY ON TEST: 730

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109483

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild
* Thymus		Cyst	
* Thyroid Gland	C Cell	Hyperplasia	Mild

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 270

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
	[Hepatodiaphragmatic Nodule TGLs = 5-23]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	Multiple
	[Ectasia TGLs = 1-8]		
	[Fibroadenoma TGLs = 2-21, 3-22]		
* Pituitary Gland	Pars Distalis	Angiectasis	Marked
	[Angiectasis TGLs = 6-1]		
* Skin		Basal Cell Adenoma	
	Note: Basal cell adenoma-small mass in dermis of skin section with mammary gland, slide # 8.		
* Spleen	Lymph Follic	Atrophy	Minimal
		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 270

TMT: 4

SEX: Female

DAY ON TEST: 730

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109484

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Pigmentation

Degeneration

Hyperplasia

Moderate

Cystic, Minimal

Mild

Animal Note: TGL 4=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 271

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Moderate
* Clitoral Gland		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Mild
		Infarct	Marked
		Inflammation	Chronic, Moderate
		Nephropathy	Minimal
Note: Marked, bilateral, renal infarcts. Lesion in the left kidney also had moderate chronic-active inflammation. [Infarct TGLs = 7-26]			
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	Multiple
		Hyperplasia	Mild
[Ectasia TGLs = 2-8] [Fibroadenoma TGLs = 3-22, 4-23, 5-24, 6-25]			
* Pancreas		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 271

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109485

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 11-1]		
* Skin		Neural Crest Tumor	
	[Neural Crest Tumor TGLs = 1-21]		
* Spleen		Pigmentation	Mild
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 8-27, 9-7]		

Animal Note: TGL 10=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 272

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	
	[Compression TGLs = 8-1]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7-24]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	Multiple
		Hyperplasia	Minimal
	[Ectasia TGLs = 1-8]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 272

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109486

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLs = 2-21, 3-22]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 5-23]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 9-1]			
* Spleen		Leukemia Mononuclear Pigmentation	Minimal
[Leukemia Mononuclear TGLs = 4-6]			

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 273

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Natural Death

DAY ON TEST: 568
 HISTO: 109487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-------------------|-------------|------------------------|----------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Heart | * Islets, Pancreatic |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Thyroid Gland |
| * Trachea | | | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Eye | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Stomach, Glandular |

OBSERVATIONS

- | | | | |
|--|----------------|----------------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Mild |
| * Harderian Gland | | Inflammation | Chronic, Minimal |
| * Kidney | | Mineralization | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Mixed Cell Focus | |
| Note: TGL 4-6 Abnormal fissures and lobulations are not routinely tabulated. | | | |
| * Lung | | Sarcoma | Metastatic (Uterus) |
| * Lymph Node, Mesenteric | | Hemorrhage | Marked |
| [Hemorrhage TGLs = 6-5] | | | |
| * Mammary Gland | Duct | Ectasia | Mild |
| * Pituitary Gland | Pars Distalis | Cyst | |
| | | Pigmentation | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Marked |
| * Thymus | | Sarcoma | Metastatic (Uterus) |
| [Sarcoma TGLs = 7-22] | | | |
| * Urinary Bladder | Transit Epithe | Hyperplasia | Mild |
| * Uterus | | Polyp Stromal | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 273

TMT: 4

SEX: Female

DAY ON TEST: 568

DOSE: 12.5 MG/KG

DISP: Natural Death

HISTO: 109487

ORGAN AND ACCOUNTABLE SITE STATUS

Sarcoma

[Polyp Stromal TGLs = 3-7]

[Sarcoma TGLs = 2-23, 2-23-1]

PRIMARY CAUSE OF DEATH - Uterus Sarcoma

CONTRIBUTORY CAUSE OF DEATH - Thymus Sarcoma Uterus

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 274

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109488

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mesenteric | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|---------------------------------|--------------------------------------|----------------------------------|
| * Adrenal Cortex | | Degeneration
Hypertrophy | Fatty, Minimal
Focal, Minimal |
| * Clitoral Gland | | Adenoma
Carcinoma | |
| | [Adenoma TGLs = 2-22] | | |
| | [Carcinoma TGLs = 2-22] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| * Liver | | Basophilic Focus
Clear Cell Focus | |
| | [Basophilic Focus TGLs = 4-6] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | Duct | Ectasia
Hyperplasia | Mild
Minimal |
| | [Ectasia TGLs = 1-8] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 3-21] | | |
| * Nose | | Inflammation | Chronic, Minimal |
| * Pancreas | | Cyst | |
| * Pituitary Gland | Pars Distalis | Cyst | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 274

TMT: 4
DOSE: 12.5 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 109488

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 5-1]	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus		Polyp Stromal	

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 275

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * 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 | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------------|----------------|----------------------------------|---------------------|
| * Clitoral Gland | | Adenoma | |
| * Harderian Gland | | Inflammation | Chronic, Minimal |
| * Int Lg Cecum | | | |
| Note: Cecum is on slide # 3. | | | |
| * Int Sm Jejunum | | | |
| Note: Jejunum is on slide # 4. | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | Duct | Ectasia | Mild |
| [Ectasia TGLs = 1-8] | | | |
| * Pancreas | | Atrophy | Mild |
| | | Cyst | |
| * Pituitary Gland | Pars Distalis | Angiectasis | Minimal |
| | Pars Distalis | Cyst | |
| | Pars Distalis | Hyperplasia | Focal, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 275

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109489

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Pigmentation

Moderate

* Uterus

Adenoma

Polyp Stromal

[Polyp Stromal TGLs = 2-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 276

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Minimal Fatty, Minimal
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus Clear Cell Focus Infiltration Cellular	
* Lung		Hyperplasia	Histiocyte, Minimal
Lymph Node	Mediastinal Mediastinal	Pigmentation	Lymphoid, Moderate Mild
[Hyperplasia TGLs = 2-3] [Pigmentation TGLs = 2-3]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland	Duct	Ectasia	Moderate
[Ectasia TGLs = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-1]			
* Salivary Glands		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 277

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Leukemia Mononuclear	
* Lung	[Hepatodiaphragmatic Nodule TGLs = 4-21] Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
	[Hyperplasia TGLs = 7-22]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	
	[Ectasia TGLs = 2-8]		
	[Fibroadenoma TGLs = 8-23]		
* Nose		Inflammation	Chronic, Minimal
* Ovary		Cyst	
	[Cyst TGLs = 3-7]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 277

TMT: 4

SEX: Female

DAY ON TEST: 730

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109491

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Cyst Pigmentation	Minimal
[Adenoma TGLs = 5-1] [Cyst TGLs = 5-1]			
* Salivary Glands		Atrophy	Minimal
* Spleen		Leukemia Mononuclear	
Note: Leukemia-this was an early lesion.			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLs = 6-7]			

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 278

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 730
 HISTO: 109492

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Clitoral Gland	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Adrenal Medulla		Infiltration Cellular	Lymphoid, Minimal
* Brain		Compression	
	[Compression TGLs = 5-1]		
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLs = 4-24]	Infiltration Cellular	Mixed Cell, Moderate
* Lung		Histiocytic Sarcoma	
	Note: Histiocytic sarcoma-this was an early lesion.		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Carcinoma	
	Duct	Ectasia	Mild
		Fibroadenoma	
	[Carcinoma TGLs = 2-22]		
	[Fibroadenoma TGLs = 1-21]		
Mesentery	Fat	Necrosis	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 278

TMT: 4

SEX: Female

DAY ON TEST: 730

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109492

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLs = 3-23]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 6-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 279

TMT: 4

SEX: Female

DAY ON TEST: 730

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109493

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Minimal
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLs = 5-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
		Pigmentation	Mild
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	Multiple
	[Ectasia TGLs = 3-8]		
	[Fibroadenoma TGLs = 1-21, 2-22]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 279

TMT: 4

SEX: Female

DAY ON TEST: 730

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109493

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

[Polyp Stromal TGLs = 4-7]

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 280

TMT: 4

SEX: Female

DAY ON TEST: 422

DOSE: 12.5 MG/KG

DISP: Natural Death

HISTO: 109494

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Heart	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular Vagina	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Spleen	* Thyroid Gland		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Bone Marrow		Hyperplasia	Marked
* Liver	Artery	Inflammation	Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLs = 3-3]		
* Mammary Gland		Adenoma	
	Note: TGL 1-21 Lesion included marked necrosis, inflammation and hemorrhage.		
	[Adenoma TGLs = 1-21]		
* Pituitary Gland	Pars Distalis	Cyst	
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Uterus		Polyp Stromal	
	Note: TGL 2-22 lesion included marked necrosis, edema and hemorrhage with granulation tissue formation.		
	[Polyp Stromal TGLs = 2-22]		

PRIMARY CAUSE OF DEATH - Mammary Gland Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 281

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109495

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
	[Basophilic Focus TGLs = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
	[Ectasia TGLs = 1-8]		
	[Fibroadenoma TGLs = 2-21]		
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4-1]		
* Spleen		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 282

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Ovary	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Mild
* Lung	[Hepatodiaphragmatic Nodule TGLs = 3-21, 4-22]		
	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
	[Hyperplasia TGLs = 6-23]		
	Lymph Node	Pancreatic	Mild
		Pancreatic	Moderate
	[Hemorrhage TGLs = 2-7]		
	[Pigmentation TGLs = 2-7]		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland	Duct	Ectasia	Mild
	[Ectasia TGLs = 1-8]		
* Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 282

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109496

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Nose-foreign body (fungal hyphae).

* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	[Cyst TGLs = 5-1]		
* Salivary Glands		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 283

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109497

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Brain		Pigmentation	Minimal
* Clitoral Gland		Adenoma	
	[Adenoma TGLs = 1-21]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Metaplasia	Osseous, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	
	[Fibroadenoma TGLs = 3-22]		
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 283

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109497

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 2-1]

* Spleen

* Thyroid Gland

* Uterus

C Cell

Hematopoietic Cell Proliferation

Hyperplasia

Hyperplasia

Mild

Minimal

Cystic, Moderate

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 284

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109498

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* 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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland	Bilateral	Adenoma	
[Adenoma TGLs = 4-8]			
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
[Basophilic Focus TGLs = 3-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
		Hyperplasia	Mild
[Ectasia TGLs = 1-8]			
[Fibroadenoma TGLs = 2-21]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 5-22]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 284

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109498

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

[Polyp Stromal TGLs = 6-7]

Pigmentation

Polyp Stromal

Moderate

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 285

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109499

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland	Duct	Ectasia	Mild
	[Ectasia TGLs = 2-8]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 1-21]		
* Pancreas		Atrophy	Moderate
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4-1]		
* Spleen	Lymph Follic	Atrophy	Mild
		Pigmentation	Mild
* Stomach, Glandular		Cyst	
* Thymus		Cyst	
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 3-22]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 286

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109500

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
		Hypertrophy	Focal, Minimal
* Clitoral Gland		Hyperplasia	Marked
	[Hyperplasia TGLs = 2-8]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Mild
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLs = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
		Hyperplasia	Mild
	[Ectasia TGLs = 1-8]		
	[Fibroadenoma TGLs = 3-21]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 286

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109500

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 7-1]			
* Salivary Glands		Atrophy	Minimal
* Skin		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Mild
		Ulcer	Marked
[Hyperkeratosis TGLs = 6-22]			
[Hyperplasia TGLs = 6-22]			
[Ulcer TGLs = 6-22]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLs = 4-7]			

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 287

TMT: 4

SEX: Female

DAY ON TEST: 508

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Mild
* Bone Marrow		Hyperplasia	Marked
* Brain		Compression	
	[Compression TGLs = 10-1]		
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Minimal
	Mediastinal	Pigmentation	Mild
	[Hemorrhage TGLs = 9-3]		
	[Hyperplasia TGLs = 9-3]		
	[Pigmentation TGLs = 9-3]		
* Mammary Gland		Carcinoma	
	Duct	Ectasia	Moderate
	[Carcinoma TGLs = 2-21]		
	[Ectasia TGLs = 1-8]		
* Ovary		Cyst	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 287

TMT: 4

SEX: Female

DAY ON TEST: 508

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109501

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLs = 3-7]			
* Pituitary Gland	Pars Distalis	Adenoma Pigmentation	Mild
[Adenoma TGLs = 11-1]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLs = 4-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Carcinoma

Animal Note: TGL 7=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 288

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Mild
	[Hepatocellular Adenoma TGLs = 4-6]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
	[Ectasia TGLs = 1-8]		
	[Fibroadenoma TGLs = 2-21]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 288

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109502

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Atrophy	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Moderate
* Uterus		Polyp Stromal	
[Polyp Stromal	TGLs = 3-7]		

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 289

TMT: 4

SEX: Female

DAY ON TEST: 508

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109503

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, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
* Bone Marrow		Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Moderate
[Pigmentation TGLs = 3-3]			
* Mammary Gland	Duct	Ectasia	Marked
		Fibroadenoma	
		Hyperplasia	Marked
Note: TGL 1-21 Fibroadenoma with marked necrosis and hemorrhage.			
Note: Small fibroadenoma in mammary gland section on slide # 8.			
			[Fibroadenoma TGLs = 1-21]
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLs = 2-22]			
* Pancreas		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 289

TMT: 4

SEX: Female

DAY ON TEST: 508

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109503

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Minimal
	[Angiectasis TGLs = 4-1]		
	[Hyperplasia TGLs = 4-1]		
* Spleen	Lymph Follic	Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Minimal
		Pigmentation	Mild
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 290

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109504

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Nose | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|---|-----------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| | | Hyperplasia | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Intestine Large, Cecum | | Hemorrhage | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Marked |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mesenteric | | Hemorrhage | Mild |
| * Mammary Gland | Duct | Ectasia | Mild |
| | [Ectasia TGLs = 1-8] | | |
| Mesentery | | | |
| | Note: Neoplastic (histiocytic sarcoma) cells were observed in the mesenteric adipose tissue surrounding the pancreas (slide # 7). | | |
| * Ovary | | Cyst | |
| | [Cyst TGLs = 3-7] | | |
| * Pancreas | | Atrophy | Minimal |
| | | Cyst | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 290

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109504

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
* Spleen		Ectopic Spleen	Multiple
[Ectopic Spleen TGLs = 2-6]			
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLs = 5-3]			
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLs = 4-7]			

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 291

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 452
 HISTO: 109505

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* 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	* Nose	* Ovary
* Parathyroid Gland	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Bone	Femur	Osteopetrosis	Mild
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Atrophy	Moderate
* Mammary Gland	Duct	Ectasia	Mild
		Hyperplasia	Moderate
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
* Salivary Glands		Vacuolization Cytoplasmic	Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked
Tissue NOS		Schwannoma Malignant	
	[Schwannoma Malignant TGLs = 1-21]		
* Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 291

TMT: 4

SEX: Female

DAY ON TEST: 452

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109505

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Tissue NOS Schwannoma Malignant

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 292

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Natural Death

DAY ON TEST: 660
 HISTO: 109506

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLs = 4-6, 4-23]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
		Hyperplasia	Focal, Minimal
	[Fibroadenoma TGLs = 1-21]		
* Nose		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Minimal
		Pigmentation	Minimal
* Spleen		Pigmentation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Mild
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 292

TMT: 4

SEX: Female

DAY ON TEST: 660

DOSE: 12.5 MG/KG

DISP: Natural Death

HISTO: 109506

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLs = 2-7]

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 293

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLs = 2-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Hyperplasia	Moderate
[Hyperplasia TGLs = 1-8, 5-21]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
[Adenoma TGLs = 3-1]			
[Angiectasis TGLs = 4-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
	Lymph Follic	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 293

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109507

ORGAN AND ACCOUNTABLE SITE STATUS

Pigmentation

Moderate

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 294

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLs = 4-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
	[Ectasia TGLs = 5-8]		
	[Fibroadenoma TGLs = 1-21]		
* Pancreas		Atrophy	Minimal
	Note: Pancreas, atrophy-lesion on slide #4.		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 294

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109508

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Marked

* Uterus

Hyperplasia

Cystic, Mild

[Hyperplasia TGLs = 2-7]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 295

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 689
 HISTO: 109509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * 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 | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|------------------|---|--|--|
| * Adrenal Cortex | | Degeneration
Hypertrophy
Compression | Fatty, Minimal
Focal, Mild |
| * Brain | [Compression TGLs = 7-1] | | |
| * Eye | | Cataract | Minimal |
| * Kidney | | Casts Protein
Mineralization
Nephropathy | Mild
Minimal
Mild |
| * Liver | | Basophilic Focus
Infiltration Cellular | Mixed Cell, Minimal
Histiocyte, Minimal |
| * Lung | | Infiltration Cellular | |
| Lymph Node | Mediastinal
Mediastinal
Deep Cervical
Mediastinal
Deep Cervical | Hemorrhage
Hyperplasia
Hyperplasia
Pigmentation
Pigmentation | Moderate
Lymphoid, Mild
Moderate
Mild
Moderate |
| | [Hemorrhage TGLs = 5-3] | | |
| | [Hyperplasia TGLs = 5-3] | | |
| | [Hyperplasia TGLs = 6-23] | | |
| | [Pigmentation TGLs = 5-3] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 295

TMT: 4

SEX: Female

DAY ON TEST: 689

DOSE: 12.5 MG/KG

DISP: Moribund Sacrifice

HISTO: 109509

ORGAN AND ACCOUNTABLE SITE STATUS

[Pigmentation TGLs = 6-23]			
* Mammary Gland	Duct	Ectasia Hyperplasia	Marked Mild
[Ectasia TGLs = 1-8,2-21]			
[Hyperplasia TGLs = 1-8]			
Mesentery		Accessory Spleen	
[Accessory Spleen TGLs = 4-22]			
* Pituitary Gland	Pars Distalis	Adenoma Pigmentation	Mild
[Adenoma TGLs = 8-1]			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Minimal Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 296

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109510

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * 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 |
| * Parathyroid Gland | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|----------------|----------------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| * Eye | | Cataract | Mild |
| * Harderian Gland | | Inflammation | Chronic, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Cyst | |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Hyperplasia | Mild |
| * Pancreas | | Atrophy | Minimal |
| | | Cyst | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Moderate |
| * Salivary Glands | | Atrophy | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Moderate |
| * Uterus | | Polyp Stromal | |

[Polyp Stromal TGLs = 1-21, 2-22, 3-23]

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 297

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	[Basophilic Focus TGLs = 6-6]		
	[Eosinophilic Focus TGLs = 7-25]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland	Duct	Carcinoma	
		Ectasia	Marked
		Fibroadenoma	Multiple
		Hyperplasia	Moderate
	[Carcinoma TGLs = 2-21]		
	[Fibroadenoma TGLs = 3-22, 4-23, 5-24]		
	[Hyperplasia TGLs = 1-8, 8-26]		
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 297

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109511

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate
[Adenoma TGLs = 9-1]			
* Salivary Glands		Atrophy	Minimal
* Spleen		Pigmentation	Marked

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 298

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109512

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
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLs = 3-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
	[Ectasia TGLs = 5-8]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLs = 1-21]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Cyst	
	Pars Distalis	Cyst	
	[Adenoma TGLs = 4-1]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 298

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109512

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Note: TGL 2-22 Lesion includes marked necrosis and granulation tissue formation.

[Polyp Stromal TGLs = 2-22]

Ultimobranchial Cyst

Polyp Stromal

Minimal

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 299

TMT: 4
 DOSE: 12.5 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 540
 HISTO: 109513

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, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Ovary		Cyst	
		Granulosa Cell Tumor Benign	
	[Cyst TGLs = 3-7]		
* Pancreas		Atrophy	Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLs = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 300

TMT: 4
DOSE: 12.5 MG/KG

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 109514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
		Degeneration	Fatty, Moderate
		Hyperplasia	Focal, Minimal
* Eye		Cataract	Marked
		Edema	Mild
		Inflammation	Chronic, Minimal
		Synechia	Moderate
	[Cataract TGLs = 1-44]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
	[Basophilic Focus TGLs = 2-6]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland	Duct	Ectasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 300

TMT: 4

SEX: Female

DAY ON TEST: 731

DOSE: 12.5 MG/KG

DISP: Terminal Sacrifice

HISTO: 109514

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Cyst	
[Adenoma TGLs = 3-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Uterus		Hyperplasia	Cystic, Mild

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 301

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 579
 HISTO: 109515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* 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	* Nose	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
* Bone		Osteosarcoma	
	[Osteosarcoma TGLs = 4-23]		
* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland		Adenoma	
	Note: TGL 1-22 Lesion included marked ulceration/necrosis and moderate chronic inflammation.		
	[Adenoma TGLs = 1-22]		
* Kidney		Casts Protein	Minimal
		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Clear Cell Focus	
		Hematopoietic Cell Proliferation	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Necrosis	Focal, Minimal
	[Angiectasis TGLs = 2-21]		
	[Basophilic Focus TGLs = 2-21]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 301

TMT: 6
DOSE: 25 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 579
HISTO: 109515

ORGAN AND ACCOUNTABLE SITE STATUS

	Mediastinal	Pigmentation	Mild
	[Hyperplasia TGLs = 3-3]		
	[Pigmentation TGLs = 3-3]		
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland	Duct	Ectasia	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Rathkes Cleft	Dilatation	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
	[Angiectasis TGLs = 5-1]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	Lymph Follic	Hyperplasia	Minimal
		Pigmentation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Focal, Minimal
PRIMARY CAUSE OF DEATH	- Clitoral Gland Adenoma		
CONTRIBUTORY CAUSE OF DEATH	- Bone Osteosarcoma		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 302

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* 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
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Minimal Fatty, Minimal
* Clitoral Gland		Adenoma	
	[Adenoma TGLs = 4-8]		
* Harderian Gland		Hemorrhage	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	[Basophilic Focus TGLs = 6-6]	Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	Multiple
	[Ectasia TGLs = 2-8]	Hyperplasia	Minimal
	[Fibroadenoma TGLs = 3-22, 5-23]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Skin		Cyst Epithelial Inclusion	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 302

TMT: 6

SEX: Female

DAY ON TEST: 729

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109516

ORGAN AND ACCOUNTABLE SITE STATUS

Hyperkeratosis

Mild

[Cyst Epithelial Inclusion TGLs = 1-21]

[Hyperkeratosis TGLs = 1-21]

Pigmentation

Marked

* Spleen

Hyperplasia

Cystic, Minimal

* Uterus

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 303

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 702
 HISTO: 109517

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Marked
		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Marked
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Carcinoma	
	[Carcinoma TGLs = 5-24]		
* Heart		Cardiomyopathy	Mild
* Kidney		Casts Protein	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Basophilic Focus TGLs = 14-29]		
	[Leukemia Mononuclear TGLs = 10-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 303

TMT: 6
DOSE: 25 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 702
HISTO: 109517

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLs = 3-22, 4-23, 6-25] [Hyperplasia TGLs = 2-8]	Hyperplasia	Moderate
* Pancreas	Atrophy	Minimal
* Pituitary Gland Pars Distalis	Cyst Pigmentation	Mild
[Cyst TGLs = 13-1]		
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 8-6]		
* Uterus	Polyp Stromal	
Note: TGL 9-26 Stromal polyp was diffusely necrotic. [Polyp Stromal TGLs = 9-26]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH - Clitoral Gland Carcinoma
- Mammary Gland Fibroadenoma

Animal Note: TGLs 11,12=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 304

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 431
 HISTO: 109518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Necrosis	Marked
* Brain		Necrosis	Minimal
* Kidney		Casts Protein	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
		Necrosis	Focal, Mild
	[Hepatodiaphragmatic Nodule TGLs = 3-22, 4-23]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 2-21]		
* Nose		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Rathkes Cleft	Dilatation	Minimal
	Pars Distalis	Hyperplasia	Focal, Marked
		Pigmentation	Minimal
* Spleen	Lymph Follic	Atrophy	Mild
		Necrosis	Moderate
		Pigmentation	Moderate
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 304

TMT: 6

SEX: Female

DAY ON TEST: 431

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 109518

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLs = 1-7]

PRIMARY CAUSE OF DEATH - Adrenal Cortex Necrosis
CONTRIBUTORY CAUSE OF DEATH - Liver Necrosis
- Spleen Necrosis

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 305

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Natural Death

DAY ON TEST: 616
 HISTO: 109519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
--------------------------	----------------------------	----------

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Brain		Compression	
	[Compression TGLs = 5-1]		
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	Multiple
		Hyperplasia	Moderate
	[Fibroadenoma TGLs = 1-21, 3-22]		
	[Hyperplasia TGLs = 2-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
		Pigmentation	Minimal
	[Adenoma TGLs = 4-1]		
* Salivary Glands		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 305

TMT: 6

SEX: Female

DAY ON TEST: 616

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 109519

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Hematopoietic Cell Proliferation	Minimal
	Pigmentation	Marked
* Stomach, Glandular	Ulcer	Mild
* Uterus	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 306

TMT: 6
DOSE: 25 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 727
HISTO: 109520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Esophagus	* Harderian Gland
* Islets, Pancreatic	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

MISSING

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

AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Adrenal Medulla	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lymph Node, Mesenteric	* Spleen
* Stomach, Glandular	* Thyroid Gland	* Uterus	

OBSERVATIONS

* Brain		Necrosis	Marked
* Clitoral Gland		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
	Centrilobular	Necrosis	Marked
	[Necrosis TGLs = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Liver Centrilobular Necrosis

Animal Note: TGL 4,5=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 307

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Natural Death

DAY ON TEST: 485
 HISTO: 109521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

AUTO PRECLUDES DIAG.

- | | | |
|--------------------------|--------------------------|----------------------------|
| * Intestine Large, Colon | * Intestine Small, Ileum | * Intestine Small, Jejunum |
|--------------------------|--------------------------|----------------------------|

OBSERVATIONS

- | | | | |
|---------------------------------|---------------|----------------------------------|---------------------|
| * Harderian Gland | | Inflammation | Chronic, Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| * Mammary Gland | Duct | Ectasia | Mild |
| * Pancreas | | Atrophy | Minimal |
| | | Cyst | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Mild |
| * Uterus | | Sarcoma Stromal | |
| [Sarcoma Stromal TGLs = 1-21] | | | |

PRIMARY CAUSE OF DEATH - Uterus Sarcoma Stromal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 308

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 257
 HISTO: 109522

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hemorrhage	Moderate
		Necrosis	Mild
* Brain		Pigmentation	Minimal
Note: Brain, bilateral symmetrical lesion ventral to hippocampus: Scattered mononuclear cells in meninges and neuropil with brown intracytoplasmic pigment.			
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Duodenum		Necrosis	Minimal
Note: Necrosis of epithelial cells in villar crypts and lymphocytes in the lamina propria.			
* Liver		Inflammation	Chronic, Minimal
		Necrosis	Focal, Minimal
* Lymph Node, Mesenteric		Necrosis	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	Rathkes Cleft	Dilatation	Minimal
	[Cyst TGLs = 4-1]		
* Spleen	Lymph Follic	Atrophy	Moderate
		Necrosis	Mild
		Pigmentation	Marked
* Thymus		Necrosis	Minimal
* Uterus			
Note: TGL1-7 physiologic change.			

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 308

TMT: 6

SEX: Female

DAY ON TEST: 257

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 109522

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2,3=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 309

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	Vagina	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
	[Fibroadenoma TGLs = 1-21]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
* Spleen		Pigmentation	Marked
* Uterus		Leiomyoma	
		Polyp Stromal	

Note: TGL 3-22 included focal area of decidual alteration.

[Leiomyoma TGLs = 2-22]

[Polyp Stromal TGLs = 3-22]

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 310

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Natural Death

DAY ON TEST: 661
 HISTO: 109524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Harderian Gland	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
		Hyperplasia	Focal, Mild
* Brain		Compression	
	[Compression TGLs = 3-1]		
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
	[Basophilic Focus TGLs = 6-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
	[Ectasia TGLs = 2-8]		
	[Fibroadenoma TGLs = 1-21]		
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4-1]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 310

TMT: 6

SEX: Female

DAY ON TEST: 661

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 109524

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 311

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Clitoral Gland
* Esophagus	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Infiltration Cellular	Histiocyte, Minimal
* Brain		Pigmentation	Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland	Duct	Ectasia	Minimal
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLs = 1-21]		
* Ovary		Cyst	
	[Cyst TGLs = 2-7]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Rathkes Cleft	Dilatation	Minimal
		Pigmentation	Minimal
* Spleen		Pigmentation	Mild
* Uterus		Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 312

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Natural Death

DAY ON TEST: 681
 HISTO: 109526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Thyroid Gland			

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Metaplasia	Osseous, Minimal
* Mammary Gland		Carcinoma	
	Duct	Ectasia	Moderate
Note: TGL 1-21 Carcinoma arose within a fibroadenoma. [Carcinoma TGLs = 1-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Pigmentation	Mild
Note: TGL 3-1 included moderate angiectasis. [Adenoma TGLs = 3-1]			
* Salivary Glands		Atrophy	Minimal
* Spleen		Pigmentation	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 312

TMT: 6

SEX: Female

DAY ON TEST: 681

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 109526

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Mammary Gland Carcinoma

Animal Note: TGL 2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 313

TMT: 6
DOSE: 25 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 275
HISTO: 109527

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Liver	Hepatodiaphragmatic Nodule		
[Hepatodiaphragmatic Nodule TGLs = 2-22]			
* Lung	Infiltration Cellular	Histiocyte, Minimal	
* Pancreas	Atrophy	Minimal	
* Spleen	Pigmentation	Marked	

Note: TGL 1-21 Abnormal fissures and lobulations are not routinely tabulated.

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 314

TMT: 6
DOSE: 25 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 667
HISTO: 109528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Harderian Gland	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Adrenal Medulla	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lymph Node, Mesenteric	* Spleen
* Stomach, Glandular	* Thyroid Gland		

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
	[Fibroadenoma TGLs = 1-21]	Fibroadenoma	
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 3-7]		

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 315

TMT: 6
DOSE: 25 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 513
HISTO: 109529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Jejunum

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLs = 1-21]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
	Rathkes Cleft	Dilatation	Minimal
* Spleen		Pigmentation	Moderate
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 3=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 316

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Pheochromocytoma Malignant	
	[Pheochromocytoma Malignant TGLs = 4-10]		
* Harderian Gland		Hemorrhage	Mild
* Heart		Schwannoma Benign	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
	[Ectasia TGLs = 1-8]		
	[Fibroadenoma TGLs = 2-21]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Uterus		Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLs = 3-7]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 317

TMT: 6
DOSE: 25 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 500
HISTO: 109531

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Harderian Gland	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Liver	* Thyroid Gland		

OBSERVATIONS

* Adrenal Cortex		Necrosis	Moderate
* Brain		Pigmentation	Minimal
* Heart		Cardiomyopathy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Uterus		Polyp Stromal	

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 318

TMT: 6
DOSE: 25 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 183
HISTO: 109532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Ileum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Duodenum * Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Brain		Mineralization	Mild
		Pigmentation	Mild
Note: Brain-mononuclear cells with intracytoplasmic brown pigment in the meninges and neuropil, ventral to the hippocampus.			
* Kidney		Inflammation	Chronic, Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 1-21]			
* Pituitary Gland	Pars Distalis	Atrophy	Mild
	Rathkes Cleft	Dilatation	Mild
Note: Rathkes Cleft was distended by eosinophilic proteinaceous material.			
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 319

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109533

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Intestine Small, Ileum	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Moderate
* Harderian Gland		Hemorrhage	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Mammary Gland	Duct	Ectasia	Mild
[Ectasia TGLs = 1-8]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2-1]			
* Uterus		Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 320

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 607
 HISTO: 109534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* 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	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Hematopoietic Cell Proliferation	Minimal
* Bone Marrow		Hyperplasia	Marked
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Necrosis	Minimal
* Liver		Basophilic Focus	
		Necrosis	Focal, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
	[Ectasia TGLs = 1-8]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Skin	Subcut Tiss	Fibroma	
	Note: TGL 2-21 Skin, fibroma with marked necrosis and hemorrhage. [Fibroma TGLs = 2-21]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Minimal
	[Hematopoietic Cell Proliferation TGLs = 3-6]		
* Stomach, Glandular		Ulcer	Mild
* Thyroid Gland		Degeneration	Cystic, Minimal
* Uterus		Hyperplasia	Cystic, Mild
	[Hyperplasia TGLs = 5-7]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 320

TMT: 6

SEX: Female

DAY ON TEST: 607

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 109534

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 321

TMT: 6
DOSE: 25 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 500
HISTO: 109535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* 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	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland		Carcinoma	
[Carcinoma TGLs = 1-8]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Inflammation	Chronic, Minimal
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
[Hepatodiaphragmatic Nodule TGLs = 4-22, 5-23]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
Note: TGL 4-22 Mesenteric adipose tissue and a section of liver adhered to the diaphragm (both tissues had herniated through the diaphragm into the thoracic cavity). [Necrosis TGLs = 3-21]			
* Pituitary Gland	Pars Distalis	Cyst	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 321

TMT: 6

SEX: Female

DAY ON TEST: 500

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 109535

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLs = 2-6]		
* Thyroid Gland	Degeneration	Cystic, Mild
* Uterus	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Clitoral Gland Carcinoma

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 322

TMT: 6
DOSE: 25 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 449
HISTO: 109536

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Rectum	* Intestine Small, Duodenum	* 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

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum * Intestine Large, Colon * Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Necrosis	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver	Centrilobular	Necrosis	Moderate
Note: TGL 4-23 Abnormal fissures and lobulations are not routinely tabulated.			
Note: TGL 1-21 Necrosis located primarily in centrilobular areas. Necrosis observed on slides # 6, 21, and 23.			
[Necrosis TGLs = 1-21]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 2-22]			
* Spleen		Necrosis	Mild
		Pigmentation	Moderate
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Liver Centrilobular Necrosis

CONTRIBUTORY CAUSE OF DEATH - Adrenal Cortex Necrosis

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 323

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 716
 HISTO: 109537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Brain		Compression	
	[Compression TGLs = 12-1]		
* Heart		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 10-12]	Schwannoma Benign	
	[Schwannoma Benign TGLs = 10-12]		
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
		Leukemia Mononuclear	
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Kupffer Cell	Pigmentation	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Hepatodiaphragmatic Nodule TGLs = 7-22]		
	[Leukemia Mononuclear TGLs = 6-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 11-23]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland	Duct	Ectasia	Mild
		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 323

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 716
 HISTO: 109537

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear
 Malformation

Note: TGL 3-21 Lesion included expanded nipple sinus filled with keratin.

[Leukemia Mononuclear TGLs = 2-8]
 [Malformation TGLs = 3-21]

* Pancreas

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Adenoma
 Leukemia Mononuclear

[Adenoma TGLs = 13-1]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 5-6]

* Stomach, Glandular

Leukemia Mononuclear

* Thymus

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 8-3]

* Thyroid Gland

C Cell

Hyperplasia Minimal

* Urinary Bladder

Leukemia Mononuclear

* Uterus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
 CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 324

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Harderian Gland	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Clitoral Gland		Hyperplasia	Mild
[Hyperplasia TGLs = 1-8]			
* Islets, Pancreatic		Hyperplasia	Marked
* Kidney		Casts Protein	Minimal
		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLs = 6-22]			
[Eosinophilic Focus TGLs = 6-22]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLs = 3-21]			
[Hyperplasia TGLs = 2-8]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 324

TMT: 6

SEX: Female

DAY ON TEST: 729

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109538

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary		Cyst	
[Cyst TGLs = 4-7]			
* Pancreas		Cyst	
	Acinus	Hyperplasia	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 5-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland		Ultimobranchial Cyst	Minimal
* Uterus		Hyperplasia	Cystic, Mild

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 325

TMT: 6

SEX: Female

DAY ON TEST: 513

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 109539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Esophagus	* Eye	* Harderian Gland	* 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	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	
[Compression TGLs = 4-1]			
* Clitoral Gland		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Marked
[Ectasia TGLs = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-1]			
* Spleen		Pigmentation	Moderate
* Thyroid Gland		Ultimobranchial Cyst	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLs = 2-7]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 326

TMT: 6
DOSE: 25 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 390
HISTO: 109540

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Islets, Pancreatic	* Kidney	* 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		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	

OBSERVATIONS

* Harderian Gland	Inflammation	Chronic, Minimal
* Liver	Basophilic Focus	
	Infiltration Cellular	Mixed Cell, Minimal
* Spleen	Pigmentation	Moderate
Note: TGL 1-21 Abnormal fissures and lobulations are not routinely tabulated.		
* Uterus	Hyperplasia	Cystic, Marked
[Hyperplasia TGLs = 2-7]		

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 3,4=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 327

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Ovary | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- | | |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

- | | | |
|---|-----------------------------------|---------------------|
| * Adrenal Cortex | Accessory Adrenal Cortical Nodule | Minimal |
| * Clitoral Gland | Hyperplasia | Marked |
| * Harderian Gland | Hyperplasia | Moderate |
| * Heart | Cardiomyopathy | Minimal |
| * Kidney | Casts Protein | Minimal |
| | Infarct | Marked |
| | Inflammation | Chronic, Moderate |
| | Mineralization | Minimal |
| | Nephropathy | Minimal |
| [Infarct TGLs = 5-5] | | |
| Lacrimal Gland | | |
| Note: Slide #9-1 Lacrimal gland-carcinoma. | | |
| * Liver | Basophilic Focus | |
| | Clear Cell Focus | |
| | Hepatodiaphragmatic Nodule | |
| | Infiltration Cellular | Mixed Cell, Minimal |
| Note: TGL 7-25 Abnormal fissures and lobulations are not routinely tabulated. | | |
| [Hepatodiaphragmatic Nodule TGLs = 6-24] | | |
| * Lung | Alveolar Epith | Hyperplasia |
| | | Minimal |
| | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mesenteric | Hyperplasia | Lymphoid, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 327

TMT: 6

SEX: Female

DAY ON TEST: 731

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109541

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1-8, 2-21, 4-23]		
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 8-1]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Moderate
* Thyroid Gland		Degeneration	Cystic, Mild
	C Cell	Hyperplasia	Mild

Animal Note: TGL 3=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 328

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109542

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
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Kidney		Casts Protein	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLs = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	Multiple
	[Ectasia TGLs = 3-8]		
	[Fibroadenoma TGLs = 1-21, 2-22]		
* Ovary	Bilateral	Cyst	
	[Cyst TGLs = 4-7]		
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 328

TMT: 6

SEX: Female

DAY ON TEST: 731

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109542

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

Animal Note: TGL 5=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 329

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109543

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 |
| * Lymph Node, Mesenteric | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|------------------|---------------------------------|----------------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Mild |
| * Kidney | | Mineralization | Mild |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | [Basophilic Focus TGLs = 2-6] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | Duct | Ectasia | Mild |
| | | Hyperplasia | Mild |
| | [Ectasia TGLs = 1-8] | | |
| * Nose | | Inflammation | Chronic, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Moderate |
| * Uterus | | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 330

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 652
 HISTO: 109544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* 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	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Leukemia Mononuclear	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Moderate
	[Hyperplasia TGLs = 1-8]		
* Kidney		Mineralization	Minimal
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
	[Leukemia Mononuclear TGLs = 3-6]		
* Lung		Leukemia Mononuclear Metaplasia	Osseous, Mild
Lymph Node	Deep Cervical	Leukemia Mononuclear Leukemia Mononuclear	
	Note: TGL 5-21 Axillary lymph node		
	[Leukemia Mononuclear TGLs = 5-21]		
	[Leukemia Mononuclear TGLs = 6-22]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 330

TMT: 6

SEX: Female

DAY ON TEST: 652

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 109544

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Cyst

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 2-6]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 331

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Harderian Gland	* 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	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Minimal
* Brain		Gliosis	Moderate
		Necrosis	Moderate
* Clitoral Gland		Adenoma	
* Eye		Cataract	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
	[Basophilic Focus TGLs = 3-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
	[Fibroadenoma TGLs = 1-21]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 2-22]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 331

TMT: 6

SEX: Female

DAY ON TEST: 731

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109545

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Mild

* Uterus

Hyperplasia

Cystic, Mild

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 332

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration Hyperplasia Adenoma	Fatty, Minimal Focal, Minimal
* Clitoral Gland			
Note: TGL 2-21 included marked granulomatous inflammation and necrosis. [Adenoma TGLs = 2-21]			
* Eye	Bilateral	Cataract	Mild
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet Mineralization Nephropathy	Moderate Minimal Minimal
* Liver		Basophilic Focus	
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland	Duct	Ectasia	Mild
[Ectasia TGLs = 1-8]			
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Adenoma Atrophy Cyst Pigmentation	Minimal Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 332

TMT: 6

SEX: Female

DAY ON TEST: 731

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109546

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 3-1]

* Spleen

Hematopoietic Cell Proliferation
Pigmentation

Minimal
Moderate

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 333

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109547

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
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Minimal
* Kidney		Casts Protein	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Dilatation	Minimal
	Rathkes Cleft	Dilatation	Minimal
		Pigmentation	Mild
	[Dilatation TGLs = 1-1]		
* Spleen		Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 333

TMT: 6

SEX: Female

DAY ON TEST: 731

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109547

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Hyperplasia

Cystic, Minimal

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 334

TMT: 6
DOSE: 25 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 351
HISTO: 109548

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Brain		Pigmentation	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
		Cyst	
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
		Pigmentation	Minimal
	[Angiectasis TGLs = 2-1]		
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 336

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109550

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Mild
		Hypertrophy	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland	Duct	Ectasia	Moderate
		Hyperplasia	Minimal
	[Ectasia TGLs = 1-8]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 2-21]		
* Nose		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4-1]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 336

TMT: 6

SEX: Female

DAY ON TEST: 731

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109550

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin

Note: TGL 3-22 Tissue on slide appeared to be within normal limits, however numerous erythrocytes were observed above the epidermis.

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Moderate

* Uterus

Hyperplasia

Cystic, Minimal

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 337

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Natural Death

DAY ON TEST: 652
 HISTO: 109551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Islets, Pancreatic	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hematopoietic Cell Proliferation Hyperplasia	Minimal Fatty, Mild Minimal Focal, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Hyperplasia	Mild
* Harderian Gland		Carcinoma	
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus Hematopoietic Cell Proliferation	Minimal
* Lung	Centrilobular	Necrosis	Moderate
	Alveolar Epith	Hemangiosarcoma Hyperplasia Infiltration Cellular	Metastatic (Skin) Moderate Histiocyte, Mild
	[Hemangiosarcoma TGLs = 7-22, 8-2]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland	Duct	Ectasia	Mild
	[Ectasia TGLs = 1-8]		
* Pancreas		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 337

TMT: 6
DOSE: 25 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 652
HISTO: 109551

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Rathkes Cleft	Dilatation	Minimal
	[Angiectasis TGLs = 9-1]		
	[Cyst TGLs = 9-1]		
* Skin		Hemangiosarcoma	
	[Hemangiosarcoma TGLs = 2-21]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLs = 4-6]		
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 5-7]		

PRIMARY CAUSE OF DEATH - Skin Hemangiosarcoma
CONTRIBUTORY CAUSE OF DEATH - Lung Hemangiosarcoma Skin

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 338

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 617
 HISTO: 109552

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Thymus | * Trachea | * Urinary Bladder |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|------------------|--|----------------------------------|-----------------|
| * Adrenal Cortex | | Degeneration | Fatty, Moderate |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Necrosis | Mild |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Brain | | Histiocytic Sarcoma | |
| | Note: Brain, histiocytic sarcoma-multiple intra-vascular tumor emboli associated with foci of hemorrhage and necrosis. | | |
| | [Histiocytic Sarcoma TGLs = 13-1] | | |
| * Clitoral Gland | | Adenoma | |
| | [Adenoma TGLs = 1-8] | | |
| * Heart | | Cardiomyopathy | Minimal |
| | | Histiocytic Sarcoma | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Moderate |
| | | Casts Protein | Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLs = 6-6] | | |
| * Lung | | Histiocytic Sarcoma | |
| | Alveolar Epith | Hyperplasia | Mild |
| | [Histiocytic Sarcoma TGLs = 8-2, 9-2] | | |
| Lymph Node | Mediastinal | Hemorrhage | Minimal |
| | Mediastinal | Hyperplasia | Lymphoid, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 338

TMT: 6

SEX: Female

DAY ON TEST: 617

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 109552

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 7-3]			
* Lymph Node, Mesenteric		Hemorrhage Pigmentation	Moderate Mild
[Hemorrhage TGLs = 10-5]			
[Pigmentation TGLs = 10-5]			
* Mammary Gland	Duct	Ectasia	Mild
[Ectasia TGLs = 2-8]			
* Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia	Focal, Marked
[Cyst TGLs = 14-1]			
Skeletal Muscle		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLs = 4-21]			
* Skin		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLs = 12-22]			
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Forestomach	Epithelium	Hyperplasia	Atypical, Mild
* Stomach, Glandular		Ulcer	Moderate
[Ulcer TGLs = 11-4]			
* Thyroid Gland		Degeneration	Cystic, Mild
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Skeletal Muscle Histiocytic Sarcoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 339

TMT: 6
DOSE: 25 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 179
HISTO: 109553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* 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	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon

OBSERVATIONS

* Bone Marrow	Infiltration Cellular	Histiocyte, Minimal
* Kidney	Mineralization	Minimal
* Liver	Basophilic Focus	
	Infiltration Cellular	Mixed Cell, Minimal
Note: TGL 4-22 Abnormal fissures and lobulations are not routinely tabulated.		
Mesentery	Accessory Spleen	
[Accessory Spleen TGLs = 1-21]		
* Pituitary Gland	Rathkes Cleft	Dilatation Minimal
* Spleen		Pigmentation Moderate
* Thyroid Gland		Ultimobranchial Cyst Minimal
* Uterus		Hyperplasia Cystic, Marked
[Hyperplasia TGLs = 2-7]		

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 3,5,6=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 340

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Clitoral Gland		Inflammation	Chronic, Mild
* Harderian Gland		Inflammation	Chronic, Minimal
* Kidney		Casts Protein	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
	[Ectasia TGLs = 1-8]		
	[Fibroadenoma TGLs = 2-21]		
* Nose		Inflammation	Chronic, Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Marked
* Salivary Glands		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 340

TMT: 6

SEX: Female

DAY ON TEST: 731

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109554

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Hyperplasia

Cystic, Mild

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 341

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration Hyperplasia	Fatty, Minimal Focal, Minimal
* Brain		Compression	
[Compression TGLs = 2-1]			
* Harderian Gland		Hemorrhage	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Casts Protein Nephropathy	Minimal Minimal
* Liver		Basophilic Focus Infiltration Cellular	Mixed Cell, Minimal
	Artery	Inflammation	Moderate
		Necrosis	Focal, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Mild
[Ectasia TGLs = 1-8]			
* Nose		Foreign Body	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 3-1]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 341

TMT: 6

SEX: Female

DAY ON TEST: 729

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109555

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Atrophy

Minimal

* Spleen

Pigmentation

Moderate

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 342

TMT: 6

SEX: Female

DAY ON TEST: 729

DOSE: 25 MG/KG

DISP: Terminal Sacrifice

HISTO: 109556

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas

Atrophy

Minimal

* Salivary Glands

Atrophy

Minimal

* Spleen

Pigmentation

Moderate

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 343

TMT: 6
DOSE: 25 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 338
HISTO: 109557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Heart
* 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			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Infiltration Cellular	Mixed Cell, Minimal
* Spleen	Pigmentation	Moderate
* Uterus	Polyp Stromal	

[Polyp Stromal TGLs = 1-7]

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 344

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 494
 HISTO: 109558

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Hyperplasia	Mild
* Heart		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
[Alveolar/Bronchiolar Carcinoma	TGLs = 7-12]		
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Note: Lung-metastatic thymoma, malignant on slides # 12 and 21.			
Lymph Node		Hemorrhage	Moderate
	Mediastinal	Hemorrhage	Moderate
	Pancreatic	Hyperplasia	Lymphoid, Mild
	Mediastinal	Pigmentation	Mild
	Pancreatic		
[Hemorrhage	TGLs = 8-22]		
[Hemorrhage	TGLs = 2-7]		
[Hyperplasia	TGLs = 8-22]		
[Pigmentation	TGLs = 2-7]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 344

TMT: 6

SEX: Female

DAY ON TEST: 494

DOSE: 25 MG/KG

DISP: Moribund Sacrifice

HISTO: 109558

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Hemorrhage TGLs = 3-5]		Hemorrhage	Moderate
* Mammary Gland	Duct	Ectasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Minimal
		Pigmentation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thymus [Alveolar/Bronchiolar Carcinoma TGLs = 6-21]		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma
 CONTRIBUTORY CAUSE OF DEATH - Heart Alveolar/Bronchiolar Carcinoma Lung
 - Thymus Alveolar/Bronchiolar Carcinoma Lung

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 345

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 729
 HISTO: 109559

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * 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 |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|-----------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Mild |
| * Eye | | Cataract | Marked |
| | Retina | Degeneration | Marked |
| | | Edema | Marked |
| | [Cataract TGLs = 1-44] | | |
| | [Degeneration TGLs = 1-44] | | |
| | [Edema TGLs = 1-44] | | |
| * Harderian Gland | | Inflammation | Chronic, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | Duct | Ectasia | Minimal |
| * Pancreas | | Atrophy | Minimal |
| * Spleen | | Pigmentation | Moderate |
| * Uterus | | Polyp Stromal | |
| | [Polyp Stromal TGLs = 2-7] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 346

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Esophagus | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|---|---|---|
| * Adrenal Cortex | | Degeneration
Hyperplasia
Leukemia Mononuclear
Necrosis | Fatty, Moderate
Focal, Mild
Minimal |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| * Clitoral Gland | | Leukemia Mononuclear | |
| * Eye | Retina | Degeneration
Edema | Minimal
Minimal |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet
Leukemia Mononuclear
Mineralization | Moderate
Minimal |
| * Liver | Bile Duct | Nephropathy
Hyperplasia
Leukemia Mononuclear | Minimal
Moderate |
| | Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| | [Leukemia Mononuclear TGLs = 6-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 8-2] | | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 3-7, 4-22] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 346

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109560

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland	Duct	Ectasia	Mild
Mesentery	Fat	Accessory Spleen	
		Necrosis	Mild
	[Accessory Spleen TGLs = 4-22]		
	[Necrosis TGLs = 2-21]		
* Nose		Inflammation	Chronic, Mild
* Ovary		Leukemia Mononuclear	
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	Rathkes Cleft	Dilatation	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
		Pigmentation	Mild
	[Cyst TGLs = 9-1]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7-23]		
* Stomach, Forestomach		Inflammation	Chronic Active, Minimal
* Stomach, Glandular		Erosion	Mild
	[Erosion TGLs = 10-4]		
* Thymus		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	
		Polyp Stromal	
	[Polyp Stromal TGLs = 5-7]		

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 347

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 731
 HISTO: 109561

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Cyst Hyperplasia	Marked
Note: Clitoral gland, cyst-lined by stratified squamous epithelium and filled with keratin.			
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization Nephropathy	Minimal Minimal
* Liver		Basophilic Focus Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLs = 1-6]			
* Lung		Infiltration Cellular Inflammation	Histiocyte, Minimal Chronic, Minimal
Note: Lung, chronic inflammation consisted of small aggregates of multinucleated giant cells.			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland	Duct	Ectasia	Minimal
* Nose		Inflammation	Chronic, Minimal
* Pancreas		Atrophy Cyst	Minimal
* Pituitary Gland	Rathkes Cleft	Dilatation	Minimal
* Spleen		Leukemia Mononuclear Pigmentation	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 348

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Natural Death

DAY ON TEST: 699
 HISTO: 109562

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Thyroid Gland			

OBSERVATIONS

* Clitoral Gland		Carcinoma	
[Carcinoma TGLs = 1-26]			
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLs = 5-6]			
[Hepatodiaphragmatic Nodule TGLs = 6-23]			
[Infiltration Cellular TGLs = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Hemorrhage	Moderate
	Pancreatic	Hyperplasia	Lymphoid, Mild
[Hemorrhage TGLs = 4-7]			
[Hyperplasia TGLs = 4-7]			
* Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	Multiple

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 348

TMT: 6
DOSE: 25 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 699
HISTO: 109562

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLs = 2-21, 3-22]			
* Nose		Foreign Body Inflammation	Mild Chronic, Mild
* Pituitary Gland	Pars Distalis Rathkes Cleft Pars Distalis	Angiectasis Dilatation Hyperplasia	Mild Moderate Focal, Minimal
[Angiectasis TGLs = 7-1]			
[Dilatation TGLs = 7-1]			
* Spleen	Lymph Follic	Hematopoietic Cell Proliferation Hyperplasia	Mild Focal, Moderate
[Hyperplasia TGLs = 8-24]			
* Uterus	[Granular Cell Tumor Benign TGLs = 9-25]	Granular Cell Tumor Benign	

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma
CONTRIBUTORY CAUSE OF DEATH - Clitoral Gland Carcinoma

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 349

TMT: 6
DOSE: 25 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 488
HISTO: 109563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Harderian Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Duct	Ectasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	[Cyst TGLs = 4-1]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Mild
* Uterus		Hyperplasia	Cystic, Marked
		Polyp Stromal	
	[Hyperplasia TGLs = 1-7]		
	[Polyp Stromal TGLs = 2-7]		

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 3 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 350

TMT: 6
 DOSE: 25 MG/KG

SEX: Female
 DISP: Natural Death

DAY ON TEST: 714
 HISTO: 109564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * 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 | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- * Kidney
- * Thyroid Gland

OBSERVATIONS

- | | | | |
|-------------------|---------------------------------|----------------------------------|------------------|
| * Brain | | Compression | |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | |
| | [Basophilic Focus TGLs = 7-6] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | Duct | Ectasia | Minimal |
| | [Ectasia TGLs = 1-8] | | |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5,6-1] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Moderate |
| * Uterus | Cervix | Cyst | |
| | | Polyp Stromal | |

Note: TGL 2-21- Squamous epithelial cyst.
 [Cyst TGLs = 2-21]

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 350

TMT: 6

SEX: Female

DAY ON TEST: 714

DOSE: 25 MG/KG

DISP: Natural Death

HISTO: 109564

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLs = 3-22]

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Uterus Polyp Stromal

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 351

TMT: 8

SEX: Female

DAY ON TEST: 46

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Liver	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Hemorrhage	Mild
* Brain		Pigmentation	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Rathkes Cleft	Dilatation	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 352

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 61
HISTO: 109566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* 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	* 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		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
* Spleen	Pigmentation	Moderate
* Uterus	Hyperplasia	Cystic, Marked

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 353

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 52
HISTO: 109567

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, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* 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	

MISSING

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

* Intestine Small, Ileum

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 354

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 65
HISTO: 109568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* 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, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Pigmentation	Minimal
* Kidney		Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Atrophy	Mild
	Pars Distalis	Cyst	
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 355

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 54
HISTO: 109569

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	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Mineralization	Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Rathkes Cleft	Dilatation	Minimal
* Salivary Glands		Vacuolization Cytoplasmic	Mild
* Spleen		Pigmentation	Mild
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 356

TMT: 8

SEX: Female

DAY ON TEST: 211

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109570

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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
* Parathyroid Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Pigmentation	Minimal
* Liver		Basophilic Focus	
* Pituitary Gland	Rathkes Cleft	Dilatation	Mild
[Dilatation TGLs = 3-1]			
* Salivary Glands		Atrophy	Minimal
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

Animal Note: TGL 2 = NST (No Section Taken)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 357

TMT: 8

SEX: Female

DAY ON TEST: 127

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Eye	Retina	Degeneration	Mild
* Liver		Infiltration Cellular	Mixed Cell, Mild
* Pituitary Gland	Pars Intermed	Cyst	
	Rathkes Cleft	Dilatation	Minimal
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 358

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 176
HISTO: 109572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Brain		Pigmentation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
	[Hyperplasia TGLs = 1-2]		
	[Infiltration Cellular TGLs = 1-2]		
* Spleen		Pigmentation	Mild
* Stomach, Glandular		Ulcer	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 359

TMT: 8

SEX: Female

DAY ON TEST: 89

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109573

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Ileum

OBSERVATIONS

* Brain		Pigmentation	Minimal
* Pituitary Gland	Rathkes Cleft	Dilatation	Moderate
	[Dilatation TGLs = 6-1]		
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 1,2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 360

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 156
HISTO: 109574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Heart
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Rathkes Cleft	Dilatation	Minimal
Note: Pituitary gland, Rathkes cleft distended and filled with eosinophilic proteinaceous material.			
* Spleen		Pigmentation	Mild
* Thyroid Gland		Ultimobranchial Cyst	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 361

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 82
HISTO: 109575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* 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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Pigmentation	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Pituitary Gland	Pars Distalis	Atrophy	Mild
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 362

TMT: 8

SEX: Female

DAY ON TEST: 79

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Small, Duodenum	* 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	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
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OBSERVATIONS

* Adrenal Cortex		Hemorrhage	Mild
		Inflammation	Acute, Mild
		Necrosis	Minimal
* Heart		Cardiomyopathy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Spleen	Lymph Follic	Atrophy	Mild
		Pigmentation	Marked

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 363

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 124
HISTO: 109577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Liver	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Brain	Pigmentation	Minimal
* Kidney	Mineralization	Minimal
* Lung	Necrosis	Moderate
[Necrosis TGLs = 2-2]		
* Lymph Node, Mesenteric	Hemorrhage	Minimal
* Nose	Congestion	Mild
* Spleen	Pigmentation	Minimal
* Uterus		

Note: Uterine dilatation -physiologic change.

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 364

TMT: 8

SEX: Female

DAY ON TEST: 190

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum * Intestine Large, Colon

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Liver		Basophilic Focus	
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLs = 1-3]			
* Nose		Foreign Body	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Rathkes Cleft	Dilatation	Minimal
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2,3=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 365

TMT: 8

SEX: Female

DAY ON TEST: 73

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 109579

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	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Necrosis	Moderate
* Lymph Node, Mesenteric	Hyperplasia	Lymphoid, Mild
* Salivary Glands [Necrosis TGLs = 1-8]	Necrosis	Moderate
* Spleen	Necrosis	Mild
	Pigmentation	Mild
* Stomach, Glandular	Erosion	Moderate
* Thymus	Necrosis	Mild
* Thyroid Gland	Ultimobranchial Cyst	Mild

PRIMARY CAUSE OF DEATH - Salivary Glands Necrosis

CONTRIBUTORY CAUSE OF DEATH - Adrenal Cortex Necrosis

- Spleen Necrosis

- Thymus Necrosis

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 366

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 239
HISTO: 109580

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	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	Rathkes Cleft	Dilatation	Minimal
* Spleen		Pigmentation	Mild
* Uterus		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 367

TMT: 8
 DOSE: 50 MG/KG

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 239
 HISTO: 109581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|---|-----------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| * Brain | | Pigmentation | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| Lymph Node | Mediastinal | Hemorrhage | Marked |
| | Iliac | Hemorrhage | Mild |
| | Iliac | Hyperplasia | Lymphoid, Mild |
| | Mediastinal | Pigmentation | Mild |
| | Iliac | Pigmentation | Mild |
| | [Hemorrhage TGLs = 2-22] | | |
| | [Hemorrhage TGLs = 1-21] | | |
| | [Hyperplasia TGLs = 1-21] | | |
| | [Pigmentation TGLs = 2-22] | | |
| | [Pigmentation TGLs = 1-21] | | |
| * Ovary | | | |
| | Note: Oviduct-Two hair shafts imbedded in submucosa. Hair shafts surrounded mild chronic active inflammation. | | |
| * Pituitary Gland | Rathkes Cleft | Dilatation | Minimal |
| * Spleen | | Pigmentation | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 367

TMT: 8

SEX: Female

DAY ON TEST: 239

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 109581

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Hyperplasia

Cystic, Marked

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 368

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 127
HISTO: 109582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum * Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Brain		Pigmentation	Minimal
* Pituitary Gland	Rathkes Cleft	Dilatation	Minimal
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 1,2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 369

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 150
HISTO: 109583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Harderian Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Lung		Hemorrhage	Marked
Note: Plant material (food) in lung, but no apparent tissue reaction (artifact). [Hemorrhage TGLs = 1-2]			
* Nose		Congestion	Moderate
* Pituitary Gland	Rathkes Cleft	Dilatation	Minimal
Note: Cyst-Rathkes cleft distended and filled with eosinophilic proteinaceous material.			
* Spleen		Necrosis	Mild
* Thymus		Necrosis	Minimal
Tooth			
Note: Slide # 9-1, marked chronic active inflammation surrounding one tooth.			
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 370

TMT: 8

SEX: Female

DAY ON TEST: 148

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Harderian Gland		Inflammation	Chronic, Mild
* Liver		Hepatodiaphragmatic Nodule	
		Necrosis	Focal, Minimal
	[Hepatodiaphragmatic Nodule TGLs = 3-21]		
* Pituitary Gland	Pars Distalis	Atrophy	Moderate
* Spleen		Necrosis	Minimal
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 371

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 89
HISTO: 109585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Kidney	* Liver	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Necrosis	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Marked
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	[Hemorrhage TGLs = 1-21]		
	[Hyperplasia TGLs = 1-21]		
* Ovary		Cyst	
* Spleen	Lymph Follic	Hyperplasia	Mild
		Pigmentation	Mild
* Stomach, Glandular		Erosion	Mild
	Note: Erosion of glandular stomach mucosa also observed on slide #4.		
	[Erosion TGLs = 4-22]		

PRIMARY CAUSE OF DEATH - Adrenal Cortex Necrosis

Animal Note: TGL 2=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 372

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 101
HISTO: 109586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney
* Liver	* 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

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Clitoral Gland		Infiltration Cellular	Lymphocyte, Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Spleen	Lymph Follic	Hyperplasia	Mild
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 1,2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 373

TMT: 8

SEX: Female

DAY ON TEST: 52

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109587

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, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* 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		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon

OBSERVATIONS

* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLs = 1-21, 2-22]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Uterus			

Note: TGL 5-7 Physiologic change

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGLs 3,4=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 374

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 79
HISTO: 109588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Angiectasis	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Pituitary Gland	Rathkes Cleft	Dilatation	Minimal
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 375

TMT: 8

SEX: Female

DAY ON TEST: 239

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 109589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland		Inflammation	Chronic, Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Pituitary Gland	Pars Distalis	Atrophy	Mild
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 376

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 156
HISTO: 109590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Intestine Small, Ileum * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Infiltration Cellular	Histiocyte, Mild
* Brain		Pigmentation	Minimal
* Intestine Large, Rectum		Hemorrhage	Moderate
[Hemorrhage TGLs = 4-22]			
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLs = 2-21]		Infiltration Cellular	Mixed Cell, Minimal
* Pituitary Gland	Pars Distalis	Atrophy	Minimal
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 3=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 377

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 177
HISTO: 109591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic |
| * Kidney | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- * Intestine Large, Colon
- * Intestine Small, Jejunum

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| | | Degeneration | Fatty, Mild |
| * Brain | | Pigmentation | Minimal |
| | [Pigmentation TGLs = 2-21] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Infiltration Cellular | Mixed Cell, Minimal |
| * Pituitary Gland | Pars Distalis | Angiectasis | Minimal |
| | Pars Distalis | Cyst | |
| | Rathkes Cleft | Dilatation | Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Mild |
| | | Pigmentation | Mild |

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 378

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 102
HISTO: 109592

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum * Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Brain		Pigmentation	Mild
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Spleen	Lymph Follic	Hyperplasia	Mild
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 379

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 143
HISTO: 109593

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Kidney		Mineralization	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 380

TMT: 8

SEX: Female

DAY ON TEST: 239

DOSE: 50 MG/KG

DISP: Moribund Sacrifice

HISTO: 109594

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Harderian Gland	Inflammation	Chronic, Mild
* Kidney	Mineralization	Minimal
* Liver	Basophilic Focus	
	Infiltration Cellular	Mixed Cell, Minimal
* Pancreas	Atrophy	Minimal
* Salivary Glands	Mineralization	Minimal
* Spleen	Pigmentation	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 381

TMT: 8

SEX: Female

DAY ON TEST: 110

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109595

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Brain		Pigmentation	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Mild
* Pituitary Gland	Rathkes Cleft	Dilatation	Minimal
* Spleen	Lymph Follic	Hyperplasia	Mild
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 382

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 106
HISTO: 109596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* 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	* Uterus		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Heart	Artery	Necrosis	Mild
* Kidney		Mineralization	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 383

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 153
HISTO: 109597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Adrenal Cortex		Necrosis	Moderate
* Brain		Pigmentation	Minimal
* Kidney		Mineralization	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
		Necrosis	Focal, Mild
* Pituitary Gland	Rathkes Cleft	Dilatation	Minimal
* Spleen	Lymph Follic	Atrophy	Mild
		Pigmentation	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 384

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 87
HISTO: 109598

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, 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	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon

OBSERVATIONS

* Liver	Infiltration Cellular	Mixed Cell, Minimal
* Spleen	Pigmentation	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 385

TMT: 8

SEX: Female

DAY ON TEST: 183

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Ileum

OBSERVATIONS

* Brain		Pigmentation	Mild
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Moderate
	[Hyperplasia TGLs = 1-7]		
* Nose	Nasolacrim Dct	Cyst	
	Note: Epithelial cyst of the nasolacrim duct-slide # 9-1		
* Pituitary Gland	Pars Distalis	Atrophy	Moderate
* Salivary Glands		Hyperplasia	Minimal
* Spleen	Lymph Follic	Hyperplasia	Mild
		Pigmentation	Moderate
* Thyroid Gland		Ectopic Thymus	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 386

TMT: 8

SEX: Female

DAY ON TEST: 44

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109600

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 Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

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

* Intestine Large, Colon	* Intestine Large, Rectum
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OBSERVATIONS

* Stomach, Glandular [Erosion TGLs = 1-4]	Erosion	Minimal
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PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 387

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 71
HISTO: 109601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* 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, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Brain		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Atrophy	Moderate
	Rathkes Cleft	Dilatation	Moderate
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 388

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 134
HISTO: 109602

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | | | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- * Intestine Large, Colon
- * Intestine Small, Ileum

OBSERVATIONS

- | | | | |
|-------------------|---------------|-----------------------|---------------------|
| * Bone Marrow | | Infiltration Cellular | Histiocyte, Minimal |
| * Liver | | Infiltration Cellular | Mixed Cell, Minimal |
| * Pituitary Gland | Rathkes Cleft | Dilatation | Mild |
| * Spleen | | Pigmentation | Mild |
| * Urinary Bladder | | Inflammation | Chronic, Minimal |
| * Uterus | | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 389

TMT: 8

SEX: Female

DAY ON TEST: 87

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109603

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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Atrophy	Minimal
	Rathkes Cleft	Dilatation	Minimal
Note: Pituitary gland, cyst-Rathkes cleft distended and filled with eosinophilic proteinaceous material.			
* Spleen		Pigmentation	Mild
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 390

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 148
HISTO: 109604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Atrophy	Minimal
	Rathkes Cleft	Dilatation	Minimal
* Spleen		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 391

TMT: 8

SEX: Female

DAY ON TEST: 89

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* 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	* Uterus

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Ileum
--------------------------	--------------------------

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Bone Marrow		Infiltration Cellular	Histiocyte, Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLs = 1-7]			
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 2,3=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 392

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 204
HISTO: 109606

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|--------------------------|--------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Ileum | * Islets, Pancreatic | * Kidney | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- * Intestine Small, Duodenum
- * Intestine Small, Jejunum

OBSERVATIONS

- | | | | |
|-------------------|---------------|------------------|------------------|
| * Brain | | Pigmentation | Mild |
| * Liver | | Basophilic Focus | |
| * Pituitary Gland | Pars Intermed | Cyst | |
| | Rathkes Cleft | Dilatation | Minimal |
| * Spleen | Lymph Follic | Hyperplasia | Mild |
| | | Pigmentation | Moderate |
| * Uterus | | Hyperplasia | Cystic, Moderate |

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 393

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 190
HISTO: 109607

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Jejunum

OBSERVATIONS

* Bone Marrow		Infiltration Cellular	Histiocyte, Moderate
* Heart		Cardiomyopathy	Minimal
		Hemorrhage	Mild
	[Hemorrhage TGLs = 3-12]		
* Liver		Basophilic Focus	
		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Minimal
	[Hyperplasia TGLs = 2-7]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLs = 1-21]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Atrophy	Marked
* Spleen	Lymph Follic	Hyperplasia	Mild
		Pigmentation	Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 4=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 394

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 163
HISTO: 109608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Kidney
* Lung	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
	[Hepatodiaphragmatic Nodule TGLs = 1-21]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pituitary Gland	Pars Distalis	Cyst	
	Rathkes Cleft	Dilatation	Mild
	Note: Rathkes cleft distended by eosinophilic proteinaceous material		
	[Cyst TGLs = 2-1]		
* Spleen		Pigmentation	Moderate
* Uterus			
	Note: Lumen dilatation-physiologic change.		

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 395

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 235
HISTO: 109609

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	* Islets, Pancreatic	* Kidney
* Lung	* Mammary Gland	* Nose	* Ovary
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular * Parathyroid Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Liver		Infiltration Cellular	Mixed Cell, Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mesentery		Accessory Spleen	Mild
		Necrosis	Minimal
	[Accessory Spleen TGLs = 2-22]		
	[Necrosis TGLs = 1-21]		
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Cyst	
	Rathkes Cleft	Dilatation	Mild
	[Cyst TGLs = 4-1]		
	[Dilatation TGLs = 4-1]		
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 3=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 396

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 130
HISTO: 109610

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Colon * Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Degeneration	Fatty, Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	Rathkes Cleft	Dilatation	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Pigmentation	Mild
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
 Time Report Requested: 08:14:26
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

ANIMAL NUM: 397

TMT: 8
 DOSE: 50 MG/KG

SEX: Female
 DISP: Natural Death

DAY ON TEST: 177
 HISTO: 109611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic | * Kidney | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- * Intestine Small, Jejunum

OBSERVATIONS

- | | | | |
|-------------------|------------------------------|--------------|--------------------|
| * Adrenal Cortex | | Hemorrhage | Marked |
| * Brain | | Pigmentation | Mild |
| * Liver | | Necrosis | Focal, Minimal |
| Lymph Node | Pancreatic | Hemorrhage | Moderate |
| | Pancreatic | Hyperplasia | Lymphoid, Moderate |
| | Pancreatic | Pigmentation | Mild |
| | [Hemorrhage TGLs = 1-21] | | |
| | [Hyperplasia TGLs = 1-21] | | |
| | [Pigmentation TGLs = 1-21] | | |
| * Pituitary Gland | Pars Distalis | Atrophy | Mild |
| | Pars Distalis | Cyst | |
| | Rathkes Cleft | Dilatation | Minimal |
| * Spleen | | Pigmentation | Mild |
| * Uterus | | | |

Note: Uterus-lumen dilatation-physiologic change.

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 397

TMT: 8

SEX: Female

DAY ON TEST: 177

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109611

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: TGL 2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 398

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 93
HISTO: 109612

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, Rectum |
| * Intestine Small, Duodenum | * Islets, Pancreatic | * Kidney | * Lung |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- | | | |
|--------------------------|--------------------------|----------------------------|
| * Intestine Large, Colon | * Intestine Small, Ileum | * Intestine Small, Jejunum |
|--------------------------|--------------------------|----------------------------|

OBSERVATIONS

- | | | | |
|--------------------------|---------------|-----------------------|---------------------|
| * Liver | | Infiltration Cellular | Mixed Cell, Minimal |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Minimal |
| * Pituitary Gland | Rathkes Cleft | Dilatation | Minimal |
| * Spleen | | Pigmentation | Mild |

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 399

TMT: 8
DOSE: 50 MG/KG

SEX: Female
DISP: Natural Death

DAY ON TEST: 158
HISTO: 109613

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Bone Marrow		Necrosis	Mild
* Harderian Gland		Inflammation	Chronic, Mild
* Intestine Small, Duodenum		Necrosis	Lymphoid, Minimal
* Intestine Small, Jejunum		Necrosis	Lymphoid, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Necrosis	Focal, Mild
* Lymph Node, Mesenteric		Necrosis	Mild
* Pituitary Gland	Rathkes Cleft	Dilatation	Minimal
* Spleen		Necrosis	Mild
		Pigmentation	Mild
* Thymus		Necrosis	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 1,2=NCL (No Corresponding Lesion)

TDMS No. 99037 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

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

Date Report Requested: 08/18/2010
Time Report Requested: 08:14:26
First Dose M/F: 06/09/03 / 06/09/03
Lab: SRI

ANIMAL NUM: 400

TMT: 8

SEX: Female

DAY ON TEST: 99

DOSE: 50 MG/KG

DISP: Natural Death

HISTO: 109614

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* 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, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Atrophy	Moderate
* Salivary Glands		Atrophy	Minimal
* Spleen		Pigmentation	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

Animal Note: TGL 3=NCL (No Corresponding Lesion)

*** END OF REPORT ***