

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 09/09/2010  
**Time Report Requested:** 12:54:20  
**First Dose M/F:** 06/30/03 / 06/30/03  
**Lab:** SRI

Spec. Run excl. high dose

<b>C Number:</b>	C99037B		
<b>Lock Date:</b>	11/20/2006		
<b>Cage Range:</b>	ALL		
<b>Date Range:</b>	ALL		
<b>Reasons For Removal:</b>	ALL		
<b>Removal Date Range:</b>	ALL		
<b>Treatment Groups:</b>	Include 001 0 MG/KG	Include 002 0 MG/KG	Include 003 3 MG/KG
	Include 004 3 MG/KG	Include 005 6 MG/KG	Include 006 6 MG/KG
	Include 007 12 MG/KG	Include 008 12 MG/KG	
<b>Study Gender:</b>	Both		
<b>TDMSE Version:</b>	2.2.0		

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## SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF ALPHA/BETA THUJONE MIXTURE

### MALE MICE

#### Organ

Adrenal Cortex: Subcapsular  
Eye  
Kidney

Liver

Liver: Hepatocyte  
Lung  
Lymph Node, Mandibular  
Pancreas  
Parathyroid Gland  
Salivary Glands  
Testes: Germinal Epithelium  
Urinary Bladder

### FEMALE MICE

#### Organ

Adrenal Cortex: Capsule  
Esophagus

Intestine Large, Cecum  
Islets, Pancreatic  
Kidney

Liver

Liver: Hepatocyte  
Lung

Lymph Node, Mandibular

#### Morphology

Hyperplasia  
Inflammation Chronic  
Infiltration Cellular Lymphocyte  
Metaplasia Osseous  
Basophilic Focus  
Necrosis Focal  
Vacuolization Cytoplasmic  
Thrombosis  
Hyperplasia Lymphoid  
Atrophy  
Cyst  
Infiltration Cellular Lymphocyte  
Atrophy  
Infiltration Cellular Lymphocyte

#### Morphology

Hyperplasia  
Inflammation Acute  
Ulcer  
Edema  
Hyperplasia  
Cyst  
Infiltration Cellular Lymphocyte  
Nephropathy  
Mixed Cell Focus  
Necrosis Focal  
Vacuolization Cytoplasmic  
Foreign Body  
Hemorrhage  
Inflammation Acute  
Hyperplasia Lymphoid

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**SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF ALPHA/BETA THUJONE MIXTURE**

Pancreas  
Pituitary Gland: Pars Distalis  
Thymus  
  
Thyroid Gland: Follicle  
Thyroid Gland: Follicular Cell  
Uterus: Endometrium

Infiltration Cellular Lymphocyte  
Cyst  
Hyperplasia Lymphoid  
Inflammation Chronic  
Degeneration Focal  
Hyperplasia  
Hyperplasia Cystic

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Adrenal Cortex</b>				
<b>Accessory Adrenal Cortical Nodule</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	5/50 (10%)	7/50 (14%)	2/50 (4%)
POLY-3 RATE (b)	4/45.42	5/48.15	7/48.46	2/43.84
POLY-3 PERCENT (g)	8.8%	10.4%	14.4%	4.6%
TERMINAL (d)	4/40 (10%)	4/42 (10%)	6/41 (15%)	2/37 (5%)
FIRST INCIDENCE	729 (T)	4	664	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.313N	P=0.536	P=0.300	P=0.353N
POLY 1.5	P=0.306N	P=0.522	P=0.285	P=0.351N
POLY 6	P=0.320N	P=0.553	P=0.316	P=0.356N
COCH-ARM / FISHERS	P=0.279N	P=0.500	P=0.262	P=0.339N
MAX-ISO-POLY-3	P=0.244N	P=0.399	P=0.207	P=0.217N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Adrenal Cortex</b>				
<b>Hyperplasia Focal</b>				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	7/50 (14%)	5/50 (10%)	2/50 (4%)
POLY-3 RATE (b)	5/45.42	7/47.15	5/48.61	2/43.84
POLY-3 PERCENT (g)	11%	14.9%	10.3%	4.6%
TERMINAL (d)	5/40 (13%)	7/42 (17%)	3/41 (7%)	2/37 (5%)
FIRST INCIDENCE	729 (T)	729 (T)	664	729 (T)
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<b>STATISTICAL TESTS</b>				
POLY 3	P=0.131N	P=0.406	P=0.587N	P=0.230N
POLY 1.5	P=0.129N	P=0.390	P=0.604N	P=0.229N
POLY 6	P=0.133N	P=0.424	P=0.568N	P=0.232N
COCH-ARM / FISHERS	P=0.119N	P=0.380	P=0.630N	P=0.218N
MAX-ISO-POLY-3	P=0.165N	P=0.296	P=0.455N	P=0.133N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Adrenal Cortex</b>				
<b>Hypertrophy Focal</b>				
<b>LESION RATES</b>				
<b>OVERALL (a)</b>	16/50 (32%)	20/50 (40%)	20/50 (40%)	14/50 (28%)
<b>POLY-3 RATE (b)</b>	16/46.53	20/48.21	20/48.54	14/44.34
<b>POLY-3 PERCENT (g)</b>	34.4%	41.5%	41.2%	31.6%
<b>TERMINAL (d)</b>	14/40 (35%)	17/42 (41%)	18/41 (44%)	13/37 (35%)
<b>FIRST INCIDENCE</b>	498	529	677	579
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P=0.369N	P=0.308	P=0.318	P=0.475N
<b>POLY 1.5</b>	P=0.347N	P=0.280	P=0.297	P=0.462N
<b>POLY 6</b>	P=0.393N	P=0.344	P=0.340	P=0.489N
<b>COCH-ARM / FISHERS</b>	P=0.291N	P=0.266	P=0.266	P=0.414N
<b>MAX-ISO-POLY-3</b>	P=0.385N	P=0.243	P=0.251	P=0.389N

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TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Adrenal Cortex: Capsule Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	0/47.15	0/48.22	0/43.84
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Adrenal Cortex: Subcapsular Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	11/50 (22%)	7/50 (14%)	4/50 (8%)	7/50 (14%)
POLY-3 RATE (b)	11/45.62	7/47.15	4/48.22	7/43.84
POLY-3 PERCENT (g)	24.1%	14.9%	8.3%	16%
TERMINAL (d)	10/40 (25%)	7/42 (17%)	4/41 (10%)	7/37 (19%)
FIRST INCIDENCE	677	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.194N	P=0.193N	P=0.033N*	P=0.243N
POLY 1.5	P=0.190N	P=0.208N	P=0.037N*	P=0.239N
POLY 6	P=0.199N	P=0.178N	P=0.030N*	P=0.248N
COCH-ARM / FISHERS	P=0.180N	P=0.218N	P=0.045N*	P=0.218N
MAX-ISO-POLY-3	P=0.098N	P=0.133N	P=0.020N*	P=0.173N

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Adrenal Medulla Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/49 (0%)	2/49 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/44.42	2/46.21	1/48.22	0/43.84
POLY-3 PERCENT (g)	0%	4.3%	2.1%	0%
TERMINAL (d)	0/39 (0%)	2/42 (5%)	1/41 (2%)	0/37 (0%)
FIRST INCIDENCE	---	729 (T)	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.461N	P=0.246	P=0.516	(e)
POLY 1.5	P=0.462N	P=0.241	P=0.512	(e)
POLY 6	P=0.459N	P=0.252	P=0.521	(e)
COCH-ARM / FISHERS	P=0.455N	P=0.247	P=0.505	(e)
MAX-ISO-POLY-3	P=0.347N	P=0.085	P=0.177	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Bone Marrow Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	23/50 (46%)	25/50 (50%)	23/50 (46%)	21/50 (42%)
POLY-3 RATE (b)	23/49.03	25/48.57	23/49.80	21/49.00
POLY-3 PERCENT (g)	46.9%	51.5%	46.2%	42.9%
TERMINAL (d)	15/40 (38%)	21/42 (50%)	15/41 (37%)	9/37 (24%)
FIRST INCIDENCE	476	529	589	456
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.308N	P=0.403	P=0.551N	P=0.421N
POLY 1.5	P=0.322N	P=0.396	P=0.562N	P=0.435N
POLY 6	P=0.290N	P=0.408	P=0.538N	P=0.403N
COCH-ARM / FISHERS	P=0.316N	P=0.421	P=0.579N	P=0.420N
MAX-ISO-POLY-3	P=0.429N	P=0.328	P=0.470N	P=0.343N

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TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Bone Fibrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/45.42	0/47.15	0/48.22	0/42.84
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/36 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS

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DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<hr/>				
Bone Fracture				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/45.42	0/47.15	0/48.22	0/42.84
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/36 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Bone: Cranium</b>				
<b>Osteopetrosis</b>				
<b>LESION RATES</b>				
<b>OVERALL (a)</b>	1/50 (2%)	1/50 (2%)	0/50 (0%)	2/49 (4%)
<b>POLY-3 RATE (b)</b>	1/45.42	1/47.15	0/48.22	2/42.84
<b>POLY-3 PERCENT (g)</b>	2.2%	2.1%	0%	4.7%
<b>TERMINAL (d)</b>	1/40 (3%)	1/42 (2%)	0/41 (0%)	2/36 (6%)
<b>FIRST INCIDENCE</b>	729 (T)	729 (T)	---	729 (T)
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P=0.353	P=0.752N	P=0.488N	P=0.480
<b>POLY 1.5</b>	P=0.355	P=0.757N	P=0.493N	P=0.482
<b>POLY 6</b>	P=0.351	P=0.746N	P=0.484N	P=0.477
<b>COCH-ARM / FISHERS</b>	P=0.360	P=0.753N	P=0.500N	P=0.492
<b>MAX-ISO-POLY-3</b>	P=0.256	P=0.489N	P=0.158N	P=0.268

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Epididymis</b>				
<b>Granuloma Sperm</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	2/47.15	0/48.22	0/43.84
POLY-3 PERCENT (g)	0%	4.2%	0%	0%
TERMINAL (d)	0/40 (0%)	2/42 (5%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	729 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.400N	P=0.246	(e)	(e)
POLY 1.5	P=0.404N	P=0.240	(e)	(e)
POLY 6	P=0.395N	P=0.251	(e)	(e)
COCH-ARM / FISHERS	P=0.405N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.273N	P=0.084	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Esophagus</b>				
<b>Inflammation Acute</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/45.42	1/48.15	0/48.22	0/42.84
POLY-3 PERCENT (g)	0%	2.1%	0%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/36 (0%)
FIRST INCIDENCE	---	4	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.560N	P=0.512	(e)	(e)
POLY 1.5	P=0.565N	P=0.507	(e)	(e)
POLY 6	P=0.556N	P=0.517	(e)	(e)
COCH-ARM / FISHERS	P=0.571N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.414N	P=0.173	(e)	(e)

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Esophagus</b>				
<b>Ulcer</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/45.42	1/48.15	0/48.22	0/42.84
POLY-3 PERCENT (g)	0%	2.1%	0%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/36 (0%)
FIRST INCIDENCE	---	4	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.560N	P=0.512	(e)	(e)
POLY 1.5	P=0.565N	P=0.507	(e)	(e)
POLY 6	P=0.556N	P=0.517	(e)	(e)
COCH-ARM / FISHERS	P=0.571N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.414N	P=0.173	(e)	(e)



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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Eye</b>				
<b>Cataract</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	1/47.15	0/48.22	0/43.84
POLY-3 PERCENT (g)	0%	2.1%	0%	0%
TERMINAL (d)	0/40 (0%)	1/42 (2%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	729 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.560N	P=0.507	(e)	(e)
POLY 1.5	P=0.564N	P=0.503	(e)	(e)
POLY 6	P=0.555N	P=0.513	(e)	(e)
COCH-ARM / FISHERS	P=0.567N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.405N	P=0.168	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Eye</b>				
Inflammation Chronic				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	3/50 (6%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	3/47.15	2/48.37	0/43.84
POLY-3 PERCENT (g)	0%	6.4%	4.1%	0%
TERMINAL (d)	0/40 (0%)	3/42 (7%)	1/41 (2%)	0/37 (0%)
FIRST INCIDENCE	---	729 (T)	691	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.422N	P=0.126	P=0.252	(e)
POLY 1.5	P=0.421N	P=0.121	P=0.246	(e)
POLY 6	P=0.423N	P=0.130	P=0.258	(e)
COCH-ARM / FISHERS	P=0.409N	P=0.121	P=0.247	(e)
MAX-ISO-POLY-3	P=0.251	P=0.044*	P=0.090	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Eye: Cornea Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	2/47.15	1/48.22	0/43.84
POLY-3 PERCENT (g)	0%	4.2%	2.1%	0%
TERMINAL (d)	0/40 (0%)	2/42 (5%)	1/41 (2%)	0/37 (0%)
FIRST INCIDENCE	---	729 (T)	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.467N	P=0.246	P=0.512	(e)
POLY 1.5	P=0.468N	P=0.240	P=0.507	(e)
POLY 6	P=0.467N	P=0.251	P=0.516	(e)
COCH-ARM / FISHERS	P=0.461N	P=0.247	P=0.500	(e)
MAX-ISO-POLY-3	P=0.353N	P=0.084	P=0.173	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
Time Report Requested: 12:54:20  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Gallbladder Pigmentation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/43 (0%)	0/45 (0%)	0/44 (0%)	0/41 (0%)
POLY-3 RATE (b)	0/40.30	0/42.77	0/42.83	0/38.07
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/37 (0%)	0/40 (0%)	0/38 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Harderian Gland Hyperplasia Focal</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	4/50 (8%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/45.42	4/47.15	0/48.22	2/43.84
POLY-3 PERCENT (g)	2.2%	8.5%	0%	4.6%
TERMINAL (d)	1/40 (3%)	4/42 (10%)	0/41 (0%)	2/37 (5%)
FIRST INCIDENCE	729 (T)	729 (T)	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.578N	P=0.190	P=0.488N	P=0.488
POLY 1.5	P=0.581N	P=0.183	P=0.493N	P=0.490
POLY 6	P=0.575N	P=0.198	P=0.484N	P=0.486
COCH-ARM / FISHERS	P=0.577N	P=0.181	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.355N	P=0.095	P=0.158N	P=0.273

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
Time Report Requested: 12:54:20  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Heart</b>				
<b>Cardiomyopathy</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.42	2/47.21	0/48.22	1/43.84
POLY-3 PERCENT (g)	0%	4.2%	0%	2.3%
TERMINAL (d)	0/40 (0%)	1/42 (2%)	0/41 (0%)	1/37 (3%)
FIRST INCIDENCE	---	715	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.533	P=0.246	(e)	P=0.493
POLY 1.5	P=0.532	P=0.241	(e)	P=0.494
POLY 6	P=0.534	P=0.252	(e)	P=0.492
COCH-ARM / FISHERS	P=0.539	P=0.247	(e)	P=0.500
MAX-ISO-POLY-3	P=0.332	P=0.084	(e)	P=0.158

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Heart</b>				
<b>Inflammation Acute</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	0/47.15	0/48.22	0/43.84
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Heart Mineralization</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.42	0/47.15	0/48.22	0/43.84
POLY-3 PERCENT (g)	2.2%	0%	0%	0%
TERMINAL (d)	1/40 (3%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.302N	P=0.493N	P=0.488N	P=0.507N
POLY 1.5	P=0.302N	P=0.497N	P=0.493N	P=0.506N
POLY 6	P=0.302N	P=0.487N	P=0.484N	P=0.508N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.136N	P=0.159N	P=0.158N	P=0.167N



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Intestine Large, Cecum Edema</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/48 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/44.36	0/47.15	0/47.43	0/43.26
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Islets, Pancreatic Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	12/50 (24%)	8/50 (16%)	12/50 (24%)	10/50 (20%)
POLY-3 RATE (b)	12/45.42	8/47.15	12/48.34	10/43.99
POLY-3 PERCENT (g)	26.4%	17%	24.8%	22.7%
TERMINAL (d)	12/40 (30%)	8/42 (19%)	11/41 (27%)	9/37 (24%)
FIRST INCIDENCE	729 (T)	729 (T)	698	691
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.520N	P=0.197N	P=0.524N	P=0.437N
POLY 1.5	P=0.508N	P=0.215N	P=0.551N	P=0.433N
POLY 6	P=0.530N	P=0.178N	P=0.495N	P=0.439N
COCH-ARM / FISHERS	P=0.477N	P=0.227N	P=0.592N	P=0.405N
MAX-ISO-POLY-3	P=0.474N	P=0.138N	P=0.430N	P=0.345N

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Kidney Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	11/50 (22%)	15/50 (30%)	9/50 (18%)	9/50 (18%)
POLY-3 RATE (b)	11/46.06	15/47.15	9/48.43	9/44.26
POLY-3 PERCENT (g)	23.9%	31.8%	18.6%	20.3%
TERMINAL (d)	9/40 (23%)	15/42 (36%)	8/41 (20%)	8/37 (22%)
FIRST INCIDENCE	631	729 (T)	675	608
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.237N	P=0.267	P=0.353N	P=0.440N
POLY 1.5	P=0.231N	P=0.252	P=0.372N	P=0.432N
POLY 6	P=0.243N	P=0.280	P=0.338N	P=0.449N
COCH-ARM / FISHERS	P=0.210N	P=0.247	P=0.402N	P=0.402N
MAX-ISO-POLY-3	P=0.290N	P=0.200	P=0.271N	P=0.345N

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Kidney Infarct</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	3/50 (6%)	6/50 (12%)	5/50 (10%)
POLY-3 RATE (b)	2/45.42	3/47.15	6/48.22	5/43.84
POLY-3 PERCENT (g)	4.4%	6.4%	12.4%	11.4%
TERMINAL (d)	2/40 (5%)	3/42 (7%)	6/41 (15%)	5/37 (14%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.126	P=0.517	P=0.153	P=0.202
POLY 1.5	P=0.131	P=0.506	P=0.146	P=0.204
POLY 6	P=0.121	P=0.529	P=0.161	P=0.199
COCH-ARM / FISHERS	P=0.145	P=0.500	P=0.134	P=0.218
MAX-ISO-POLY-3	P=0.176	P=0.342	P=0.088	P=0.113

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Kidney</b>				
<b>Infiltration Cellular Lymphocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	6/50 (12%)	5/50 (10%)	5/50 (10%)
POLY-3 RATE (b)	1/45.42	6/47.15	5/48.34	5/44.50
POLY-3 PERCENT (g)	2.2%	12.7%	10.3%	11.2%
TERMINAL (d)	1/40 (3%)	6/42 (14%)	4/41 (10%)	3/37 (8%)
FIRST INCIDENCE	729 (T)	729 (T)	698	545
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.172	P=0.062	P=0.117	P=0.096
POLY 1.5	P=0.172	P=0.059	P=0.111	P=0.097
POLY 6	P=0.172	P=0.067	P=0.123	P=0.097
COCH-ARM / FISHERS	P=0.184	P=0.056	P=0.102	P=0.102
MAX-ISO-POLY-3	P=0.109	P=0.029*	P=0.058	P=0.043*

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Kidney</b>				
<b>Metaplasia Osseous</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	5/50 (10%)	6/50 (12%)
POLY-3 RATE (b)	2/45.95	0/47.15	5/48.34	6/43.84
POLY-3 PERCENT (g)	4.4%	0%	10.3%	13.7%
TERMINAL (d)	1/40 (3%)	0/42 (0%)	4/41 (10%)	6/37 (16%)
FIRST INCIDENCE	568	---	698	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.018*	P=0.232N	P=0.238	P=0.118
POLY 1.5	P=0.019*	P=0.236N	P=0.230	P=0.122
POLY 6	P=0.016*	P=0.227N	P=0.246	P=0.114
COCH-ARM / FISHERS	P=0.023*	P=0.247N	P=0.218	P=0.134
MAX-ISO-POLY-3	P=0.026*	P=0.076N	P=0.140	P=0.064

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Kidney</b>				
<b>Nephropathy</b>				
<b>LESION RATES</b>				
OVERALL (a)	40/50 (80%)	41/50 (82%)	38/50 (76%)	38/50 (76%)
POLY-3 RATE (b)	40/48.00	41/47.94	38/48.80	38/46.73
POLY-3 PERCENT (g)	83.3%	85.5%	77.9%	81.3%
TERMINAL (d)	34/40 (85%)	37/42 (88%)	34/41 (83%)	32/37 (87%)
FIRST INCIDENCE	476	654	675	470
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.363N	P=0.494	P=0.332N	P=0.506N
POLY 1.5	P=0.350N	P=0.461	P=0.358N	P=0.493N
POLY 6	P=0.389N	P=0.530	P=0.317N	P=0.531N
COCH-ARM / FISHERS	P=0.290N	P=0.500	P=0.405N	P=0.405N
MAX-ISO-POLY-3	P=0.427N	P=0.378	P=0.244N	P=0.394N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Kidney: Renal Tubule Accumulation, Hyaline Droplet</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	0/47.15	0/48.22	0/43.84
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Kidney: Renal Tubule Pigmentation</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	3/50 (6%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/45.42	3/47.40	0/48.22	1/43.99
POLY-3 PERCENT (g)	2.2%	6.3%	0%	2.3%
TERMINAL (d)	1/40 (3%)	2/42 (5%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	729 (T)	663	---	691
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.408N	P=0.321	P=0.488N	P=0.754
POLY 1.5	P=0.411N	P=0.312	P=0.493N	P=0.754
POLY 6	P=0.404N	P=0.332	P=0.484N	P=0.753
COCH-ARM / FISHERS	P=0.409N	P=0.309	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.293N	P=0.171	P=0.158N	P=0.490

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver</b>				
<b>Basophilic Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	5/50 (10%)
POLY-3 RATE (b)	2/45.42	1/47.15	0/48.22	5/44.92
POLY-3 PERCENT (g)	4.4%	2.1%	0%	11.1%
TERMINAL (d)	2/40 (5%)	1/42 (2%)	0/41 (0%)	3/37 (8%)
FIRST INCIDENCE	729 (T)	729 (T)	---	545
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.068	P=0.487N	P=0.224N	P=0.211
POLY 1.5	P=0.069	P=0.495N	P=0.229N	P=0.210
POLY 6	P=0.068	P=0.478N	P=0.219N	P=0.214
COCH-ARM / FISHERS	P=0.072	P=0.500N	P=0.247N	P=0.218
MAX-ISO-POLY-3	P=0.028*	P=0.273N	P=0.076N	P=0.117

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver</b>				
<b>Clear Cell Focus</b>				
<b>LESION RATES</b>				
<b>OVERALL (a)</b>	17/50 (34%)	14/50 (28%)	13/50 (26%)	21/50 (42%)
<b>POLY-3 RATE (b)</b>	17/46.10	14/47.15	13/48.42	21/44.34
<b>POLY-3 PERCENT (g)</b>	36.9%	29.7%	26.9%	47.4%
<b>TERMINAL (d)</b>	16/40 (40%)	14/42 (33%)	12/41 (29%)	20/37 (54%)
<b>FIRST INCIDENCE</b>	498	729 (T)	677	579
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P=0.135	P=0.303N	P=0.204N	P=0.210
<b>POLY 1.5</b>	P=0.145	P=0.325N	P=0.225N	P=0.221
<b>POLY 6</b>	P=0.126	P=0.277N	P=0.182N	P=0.201
<b>COCH-ARM / FISHERS</b>	P=0.173	P=0.333N	P=0.257N	P=0.268
<b>MAX-ISO-POLY-3</b>	P=0.087	P=0.233N	P=0.152N	P=0.158

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver</b>				
<b>Eosinophilic Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	5/50 (10%)	6/50 (12%)	5/50 (10%)
POLY-3 RATE (b)	2/45.42	5/47.15	6/48.73	5/44.87
POLY-3 PERCENT (g)	4.4%	10.6%	12.3%	11.1%
TERMINAL (d)	2/40 (5%)	5/42 (12%)	3/41 (7%)	2/37 (5%)
FIRST INCIDENCE	729 (T)	729 (T)	675	579
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.216	P=0.232	P=0.157	P=0.211
POLY 1.5	P=0.215	P=0.222	P=0.148	P=0.209
POLY 6	P=0.220	P=0.242	P=0.169	P=0.215
COCH-ARM / FISHERS	P=0.226	P=0.218	P=0.134	P=0.218
MAX-ISO-POLY-3	P=0.199	P=0.134	P=0.092	P=0.117

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver</b>				
<b>Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/45.42	0/47.15	0/48.22	1/43.92
POLY-3 PERCENT (g)	2.2%	0%	0%	2.3%
TERMINAL (d)	1/40 (3%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	729 (T)	---	---	709
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.586	P=0.493N	P=0.488N	P=0.753
POLY 1.5	P=0.589	P=0.497N	P=0.493N	P=0.754
POLY 6	P=0.582	P=0.487N	P=0.484N	P=0.753
COCH-ARM / FISHERS	P=0.595	P=0.500N	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.397	P=0.159N	P=0.158N	P=0.490

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver</b>				
<b>Infiltration Cellular Lymphocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	0/47.15	0/48.22	0/43.84
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 99037 - 06  
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 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	2/45.62	1/47.15	3/48.22	3/43.84
POLY-3 PERCENT (g)	4.4%	2.1%	6.2%	6.8%
TERMINAL (d)	1/40 (3%)	1/42 (2%)	3/41 (7%)	3/37 (8%)
FIRST INCIDENCE	677	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.280	P=0.488N	P=0.525	P=0.482
POLY 1.5	P=0.287	P=0.496N	P=0.516	P=0.485
POLY 6	P=0.272	P=0.481N	P=0.534	P=0.478
COCH-ARM / FISHERS	P=0.302	P=0.500N	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.362	P=0.274N	P=0.350	P=0.311

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver</b>				
<b>Mixed Cell Focus</b>				
<b>LESION RATES</b>				
<b>OVERALL (a)</b>	12/50 (24%)	7/50 (14%)	11/50 (22%)	7/50 (14%)
<b>POLY-3 RATE (b)</b>	12/45.42	7/47.15	11/49.03	7/43.84
<b>POLY-3 PERCENT (g)</b>	26.4%	14.9%	22.4%	16%
<b>TERMINAL (d)</b>	12/40 (30%)	7/42 (17%)	8/41 (20%)	7/37 (19%)
<b>FIRST INCIDENCE</b>	729 (T)	729 (T)	589	729 (T)
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P=0.232N	P=0.130N	P=0.417N	P=0.171N
<b>POLY 1.5</b>	P=0.225N	P=0.144N	P=0.450N	P=0.169N
<b>POLY 6</b>	P=0.240N	P=0.116N	P=0.380N	P=0.172N
<b>COCH-ARM / FISHERS</b>	P=0.203N	P=0.154N	P=0.500N	P=0.154N
<b>MAX-ISO-POLY-3</b>	P=0.185N	P=0.087N	P=0.332N	P=0.117N



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

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Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver</b>				
<b>Necrosis Focal</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	0/50 (0%)	5/50 (10%)	3/50 (6%)
POLY-3 RATE (b)	4/45.71	0/47.15	5/48.57	3/44.27
POLY-3 PERCENT (g)	8.8%	0%	10.3%	6.8%
TERMINAL (d)	3/40 (8%)	0/42 (0%)	3/41 (7%)	1/37 (3%)
FIRST INCIDENCE	649	---	675	652
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.470	P=0.056N	P=0.538	P=0.517N
POLY 1.5	P=0.479	P=0.059N	P=0.523	P=0.515N
POLY 6	P=0.461	P=0.054N	P=0.553	P=0.519N
COCH-ARM / FISHERS	P=0.500	P=0.059N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.339	P=0.019N*	P=0.401	P=0.365N

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver</b>				
<b>Tension Lipidosis</b>				
<b>LESION RATES</b>				
<b>OVERALL (a)</b>	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
<b>POLY-3 RATE (b)</b>	0/45.42	0/47.15	1/48.35	0/43.84
<b>POLY-3 PERCENT (g)</b>	0%	0%	2.1%	0%
<b>TERMINAL (d)</b>	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
<b>FIRST INCIDENCE</b>	---	---	696	---
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P=0.670	(e)	P=0.512	(e)
<b>POLY 1.5</b>	P=0.677	(e)	P=0.508	(e)
<b>POLY 6</b>	P=0.662	(e)	P=0.518	(e)
<b>COCH-ARM / FISHERS</b>	P=0.694	(e)	P=0.500	(e)
<b>MAX-ISO-POLY-3</b>	P=0.404	(e)	P=0.174	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver: Centrilobular Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	2/48.05	1/48.34	0/43.84
POLY-3 PERCENT (g)	0%	4.2%	2.1%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	529	698	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.466N	P=0.250	P=0.512	(e)
POLY 1.5	P=0.468N	P=0.243	P=0.508	(e)
POLY 6	P=0.465N	P=0.258	P=0.517	(e)
COCH-ARM / FISHERS	P=0.461N	P=0.247	P=0.500	(e)
MAX-ISO-POLY-3	P=0.357N	P=0.088	P=0.174	(e)

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver: Hepatocyte Vacuolization Cytoplasmic</b>				
<b>LESION RATES</b>				
OVERALL (a)	23/50 (46%)	13/50 (26%)	20/50 (40%)	17/50 (34%)
POLY-3 RATE (b)	23/46.14	13/47.15	20/48.22	17/43.84
POLY-3 PERCENT (g)	49.9%	27.6%	41.5%	38.8%
TERMINAL (d)	22/40 (55%)	13/42 (31%)	20/41 (49%)	17/37 (46%)
FIRST INCIDENCE	476	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.353N	P=0.020N*	P=0.269N	P=0.196N
POLY 1.5	P=0.332N	P=0.025N*	P=0.299N	P=0.187N
POLY 6	P=0.376N	P=0.015N*	P=0.240N	P=0.204N
COCH-ARM / FISHERS	P=0.284N	P=0.030N*	P=0.343N	P=0.154N
MAX-ISO-POLY-3	P=0.148N	P=0.012N*	P=0.211N	P=0.147N

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver: Kupffer Cell Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	0/47.15	1/48.22	0/43.84
POLY-3 PERCENT (g)	0%	0%	2.1%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	1/41 (2%)	0/37 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.670	(e)	P=0.512	(e)
POLY 1.5	P=0.677	(e)	P=0.507	(e)
POLY 6	P=0.663	(e)	P=0.516	(e)
COCH-ARM / FISHERS	P=0.694	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.404	(e)	P=0.173	(e)

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lung</b>				
<b>Foreign Body</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	0/47.15	1/48.22	0/43.84
POLY-3 PERCENT (g)	0%	0%	2.1%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	1/41 (2%)	0/37 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.670	(e)	P=0.512	(e)
POLY 1.5	P=0.677	(e)	P=0.507	(e)
POLY 6	P=0.663	(e)	P=0.516	(e)
COCH-ARM / FISHERS	P=0.694	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.404	(e)	P=0.173	(e)

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lung Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/45.62	1/47.15	1/48.22	0/43.84
POLY-3 PERCENT (g)	4.4%	2.1%	2.1%	0%
TERMINAL (d)	1/40 (3%)	1/42 (2%)	1/41 (2%)	0/37 (0%)
FIRST INCIDENCE	677	729 (T)	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.159N	P=0.488N	P=0.481N	P=0.246N
POLY 1.5	P=0.158N	P=0.496N	P=0.488N	P=0.244N
POLY 6	P=0.161N	P=0.481N	P=0.474N	P=0.248N
COCH-ARM / FISHERS	P=0.153N	P=0.500N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.135N	P=0.274N	P=0.270N	P=0.085N

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lung</b>				
<b>Infiltration Cellular Lymphocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	0/47.15	0/48.22	0/43.84
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
Time Report Requested: 12:54:20  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS

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DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<hr/>				
Lung Inflammation Acute				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	0/47.15	0/48.22	0/43.84
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lung</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	1/48.15	0/48.22	0/43.84
POLY-3 PERCENT (g)	0%	2.1%	0%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	4	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.557N	P=0.512	(e)	(e)
POLY 1.5	P=0.562N	P=0.507	(e)	(e)
POLY 6	P=0.553N	P=0.517	(e)	(e)
COCH-ARM / FISHERS	P=0.567N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.409N	P=0.173	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lung Thrombosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/45.42	0/47.15	0/48.22	2/44.50
POLY-3 PERCENT (g)	0%	0%	0%	4.5%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	545
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.044*	(e)	(e)	P=0.233
POLY 1.5	P=0.044*	(e)	(e)	P=0.232
POLY 6	P=0.044*	(e)	(e)	P=0.233
COCH-ARM / FISHERS	P=0.046*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.032*	(e)	(e)	P=0.076

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lung: Alveolar Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	1/50 (2%)	5/50 (10%)	4/50 (8%)
POLY-3 RATE (b)	3/45.42	1/47.15	5/48.38	4/43.92
POLY-3 PERCENT (g)	6.6%	2.1%	10.3%	9.1%
TERMINAL (d)	3/40 (8%)	1/42 (2%)	4/41 (10%)	3/37 (8%)
FIRST INCIDENCE	729 (T)	729 (T)	688	709
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.239	P=0.292N	P=0.392	P=0.482
POLY 1.5	P=0.246	P=0.300N	P=0.378	P=0.484
POLY 6	P=0.231	P=0.283N	P=0.406	P=0.480
COCH-ARM / FISHERS	P=0.264	P=0.309N	P=0.357	P=0.500
MAX-ISO-POLY-3	P=0.268	P=0.149N	P=0.267	P=0.333

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lymph Node, Mandibular Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/47 (0%)	0/49 (0%)	0/46 (0%)	0/47 (0%)
POLY-3 RATE (b)	0/42.42	0/46.31	0/44.22	0/41.60
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/37 (0%)	0/42 (0%)	0/37 (0%)	0/35 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lymph Node, Mandibular Hyperplasia Lymphoid</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/47 (11%)	1/49 (2%)	9/46 (20%)	5/47 (11%)
POLY-3 RATE (b)	5/42.62	1/46.31	9/44.73	5/41.60
POLY-3 PERCENT (g)	11.7%	2.2%	20.1%	12%
TERMINAL (d)	4/37 (11%)	1/42 (2%)	6/37 (16%)	5/35 (14%)
FIRST INCIDENCE	677	729 (T)	664	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.268	P=0.083N	P=0.219	P=0.616
POLY 1.5	P=0.279	P=0.088N	P=0.203	P=0.616
POLY 6	P=0.255	P=0.078N	P=0.237	P=0.613
COCH-ARM / FISHERS	P=0.305	P=0.093N	P=0.181	P=0.630N
MAX-ISO-POLY-3	P=0.142	P=0.039N*	P=0.150	P=0.483

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lymph Node, Mandibular Pigmentation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/47 (0%)	2/49 (4%)	0/46 (0%)	1/47 (2%)
POLY-3 RATE (b)	0/42.42	2/46.52	0/44.22	1/42.01
POLY-3 PERCENT (g)	0%	4.3%	0%	2.4%
TERMINAL (d)	0/37 (0%)	1/42 (2%)	0/37 (0%)	0/35 (0%)
FIRST INCIDENCE	---	674	---	608
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.537	P=0.258	(e)	P=0.498
POLY 1.5	P=0.533	P=0.251	(e)	P=0.497
POLY 6	P=0.542	P=0.267	(e)	P=0.499
COCH-ARM / FISHERS	P=0.535	P=0.258	(e)	P=0.500
MAX-ISO-POLY-3	P=0.331	P=0.094	(e)	P=0.158

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lymph Node, Mesenteric Angiectasis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/49 (2%)	2/48 (4%)	3/47 (6%)	0/47 (0%)
POLY-3 RATE (b)	1/44.42	2/45.64	3/45.62	0/41.47
POLY-3 PERCENT (g)	2.3%	4.4%	6.6%	0%
TERMINAL (d)	1/39 (3%)	2/42 (5%)	3/40 (8%)	0/36 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.367N	P=0.509	P=0.315	P=0.514N
POLY 1.5	P=0.365N	P=0.500	P=0.305	P=0.514N
POLY 6	P=0.369N	P=0.521	P=0.326	P=0.513N
COCH-ARM / FISHERS	P=0.351N	P=0.492	P=0.293	P=0.510N
MAX-ISO-POLY-3	P=0.223N	P=0.292	P=0.167	P=0.173N



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lymph Node, Mesenteric Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/49 (2%)	1/48 (2%)	1/47 (2%)	3/47 (6%)
POLY-3 RATE (b)	1/44.87	1/45.64	1/45.72	3/42.53
POLY-3 PERCENT (g)	2.2%	2.2%	2.2%	7.1%
TERMINAL (d)	0/39 (0%)	1/42 (2%)	0/40 (0%)	1/36 (3%)
FIRST INCIDENCE	598	729 (T)	704	518
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.151	P=0.757N	P=0.756N	P=0.286
POLY 1.5	P=0.151	P=0.759	P=0.759	P=0.284
POLY 6	P=0.151	P=0.751N	P=0.751N	P=0.289
COCH-ARM / FISHERS	P=0.154	P=0.747	P=0.742	P=0.293
MAX-ISO-POLY-3	P=0.178	P=0.494N	P=0.494N	P=0.145

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lymph Node, Mesenteric Ectasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/49 (0%)	1/48 (2%)	0/47 (0%)	1/47 (2%)
POLY-3 RATE (b)	0/44.42	1/45.64	0/45.62	1/41.47
POLY-3 PERCENT (g)	0%	2.2%	0%	2.4%
TERMINAL (d)	0/39 (0%)	1/42 (2%)	0/40 (0%)	1/36 (3%)
FIRST INCIDENCE	---	729 (T)	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.393	P=0.505	(e)	P=0.486
POLY 1.5	P=0.392	P=0.500	(e)	P=0.486
POLY 6	P=0.394	P=0.512	(e)	P=0.487
COCH-ARM / FISHERS	P=0.397	P=0.495	(e)	P=0.490
MAX-ISO-POLY-3	P=0.252	P=0.167	(e)	P=0.156

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lymph Node, Mesenteric Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/49 (4%)	2/48 (4%)	0/47 (0%)	2/47 (4%)
POLY-3 RATE (b)	2/44.42	2/45.64	0/45.62	2/41.47
POLY-3 PERCENT (g)	4.5%	4.4%	0%	4.8%
TERMINAL (d)	2/39 (5%)	2/42 (5%)	0/40 (0%)	2/36 (6%)
FIRST INCIDENCE	729 (T)	729 (T)	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.569N	P=0.684N	P=0.231N	P=0.669
POLY 1.5	P=0.571N	P=0.693	P=0.237N	P=0.669
POLY 6	P=0.568N	P=0.672N	P=0.225N	P=0.670
COCH-ARM / FISHERS	P=0.571N	P=0.684	P=0.258N	P=0.676
MAX-ISO-POLY-3	P=0.472N	P=0.488N	P=0.078N	P=0.472

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lymph Node, Mesenteric Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	6/49 (12%)	4/48 (8%)	6/47 (13%)	2/47 (4%)
POLY-3 RATE (b)	6/46.86	4/45.92	6/45.62	2/41.47
POLY-3 PERCENT (g)	12.8%	8.7%	13.2%	4.8%
TERMINAL (d)	1/39 (3%)	3/42 (7%)	6/40 (15%)	2/36 (6%)
FIRST INCIDENCE	498	654	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.189N	P=0.383N	P=0.602	P=0.176N
POLY 1.5	P=0.178N	P=0.388N	P=0.598	P=0.167N
POLY 6	P=0.203N	P=0.376N	P=0.602	P=0.186N
COCH-ARM / FISHERS	P=0.154N	P=0.383N	P=0.590	P=0.148N
MAX-ISO-POLY-3	P=0.194N	P=0.265N	P=0.479	P=0.107N

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lymph Node, Mesenteric Hyperplasia Lymphoid</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/49 (4%)	5/48 (10%)	4/47 (9%)	5/47 (11%)
POLY-3 RATE (b)	2/44.42	5/45.64	4/46.34	5/41.97
POLY-3 PERCENT (g)	4.5%	11%	8.6%	11.9%
TERMINAL (d)	2/39 (5%)	5/42 (12%)	2/40 (5%)	4/36 (11%)
FIRST INCIDENCE	729 (T)	729 (T)	589	579
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.213	P=0.227	P=0.357	P=0.193
POLY 1.5	P=0.212	P=0.216	P=0.341	P=0.192
POLY 6	P=0.217	P=0.241	P=0.376	P=0.196
COCH-ARM / FISHERS	P=0.221	P=0.209	P=0.319	P=0.201
MAX-ISO-POLY-3	P=0.198	P=0.131	P=0.223	P=0.107

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
Time Report Requested: 12:54:20  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Mammary Gland Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	0/47.15	0/48.22	0/43.84
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Mesentery: Fat Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/4 (75%)	3/4 (75%)	2/3 (67%)	6/7 (86%)
POLY-3 RATE (b)	3/4.00	3/4.00	2/2.90	6/6.25
POLY-3 PERCENT (g)	75%	75%	69%	96.1%
TERMINAL (d)	2/3 (67%)	2/3 (67%)	2/2 (100%)	5/5 (100%)
FIRST INCIDENCE	498	654	729 (T)	652
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.278	P=0.760	P=0.723N	P=0.489
POLY 1.5	P=0.336	P=0.760	P=0.710N	P=0.551
POLY 6	P=0.233	P=0.760	P=0.748N	P=0.433
COCH-ARM / FISHERS	P=0.439	P=0.786N	P=0.714N	P=0.618
MAX-ISO-POLY-3	P=0.337	P=1.000	P=0.443N	P=0.166

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Nose</b>				
<b>Foreign Body</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/45.42	2/47.15	1/48.46	2/43.84
POLY-3 PERCENT (g)	0%	4.2%	2.1%	4.6%
TERMINAL (d)	0/40 (0%)	2/42 (5%)	0/41 (0%)	2/37 (5%)
FIRST INCIDENCE	---	729 (T)	664	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.235	P=0.246	P=0.513	P=0.229
POLY 1.5	P=0.237	P=0.240	P=0.508	P=0.231
POLY 6	P=0.234	P=0.251	P=0.518	P=0.228
COCH-ARM / FISHERS	P=0.245	P=0.247	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.159	P=0.084	P=0.175	P=0.076



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Nose</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	3/50 (6%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	5/45.42	3/47.21	4/48.42	3/43.84
POLY-3 PERCENT (g)	11%	6.4%	8.3%	6.8%
TERMINAL (d)	5/40 (13%)	2/42 (5%)	3/41 (7%)	3/37 (8%)
FIRST INCIDENCE	729 (T)	715	677	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.364N	P=0.336N	P=0.460N	P=0.376N
POLY 1.5	P=0.358N	P=0.349N	P=0.476N	P=0.373N
POLY 6	P=0.370N	P=0.321N	P=0.444N	P=0.379N
COCH-ARM / FISHERS	P=0.341N	P=0.357N	P=0.500N	P=0.357N
MAX-ISO-POLY-3	P=0.395N	P=0.219N	P=0.332N	P=0.251N

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Pancreas</b>				
<b>Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/45.42	3/47.15	1/48.22	2/44.60
POLY-3 PERCENT (g)	0%	6.4%	2.1%	4.5%
TERMINAL (d)	0/40 (0%)	3/42 (7%)	1/41 (2%)	1/37 (3%)
FIRST INCIDENCE	---	729 (T)	729 (T)	456
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.332	P=0.126	P=0.512	P=0.233
POLY 1.5	P=0.331	P=0.121	P=0.507	P=0.233
POLY 6	P=0.333	P=0.130	P=0.516	P=0.233
COCH-ARM / FISHERS	P=0.337	P=0.121	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.192	P=0.044*	P=0.173	P=0.076

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Pancreas</b>				
<b>Basophilic Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	0/47.15	2/48.22	0/43.84
POLY-3 PERCENT (g)	0%	0%	4.2%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	2/41 (5%)	0/37 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.564	(e)	P=0.251	(e)
POLY 1.5	P=0.573	(e)	P=0.246	(e)
POLY 6	P=0.555	(e)	P=0.256	(e)
COCH-ARM / FISHERS	P=0.595	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.271	(e)	P=0.089	(e)

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)**  
**TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Pancreas</b>				
<b>Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	0/47.15	0/48.22	0/43.84
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Pancreas</b>				
<b>Infiltration Cellular Lymphocyte</b>				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	0/47.15	0/48.22	0/43.84
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Pancreas: Acinus Cytoplasmic Alteration</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	6/50 (12%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	2/45.42	6/47.40	3/48.22	1/43.84
POLY-3 PERCENT (g)	4.4%	12.7%	6.2%	2.3%
TERMINAL (d)	2/40 (5%)	5/42 (12%)	3/41 (7%)	1/37 (3%)
FIRST INCIDENCE	729 (T)	663	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.222N	P=0.147	P=0.527	P=0.512N
POLY 1.5	P=0.221N	P=0.139	P=0.517	P=0.510N
POLY 6	P=0.224N	P=0.157	P=0.538	P=0.514N
COCH-ARM / FISHERS	P=0.210N	P=0.134	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.191N	P=0.082	P=0.352	P=0.294N

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Parathyroid Gland Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/43 (0%)	0/48 (0%)	0/47 (0%)	4/46 (9%)
POLY-3 RATE (b)	0/39.10	0/45.48	0/45.37	4/41.88
POLY-3 PERCENT (g)	0%	0%	0%	9.6%
TERMINAL (d)	0/34 (0%)	0/42 (0%)	0/39 (0%)	2/34 (6%)
FIRST INCIDENCE	---	---	---	4
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.002**	(e)	(e)	P=0.068
POLY 1.5	P=0.003**	(e)	(e)	P=0.069
POLY 6	P=0.002**	(e)	(e)	P=0.069
COCH-ARM / FISHERS	P=0.003**	(e)	(e)	P=0.067
MAX-ISO-POLY-3	P=0.004**	(e)	(e)	P=0.024*

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Pituitary Gland: Pars Distalis Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/48 (8%)	3/50 (6%)	2/48 (4%)	2/49 (4%)
POLY-3 RATE (b)	4/43.42	3/47.15	2/46.22	2/42.84
POLY-3 PERCENT (g)	9.2%	6.4%	4.3%	4.7%
TERMINAL (d)	4/38 (11%)	3/42 (7%)	2/39 (5%)	2/36 (6%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.258N	P=0.455N	P=0.309N	P=0.343N
POLY 1.5	P=0.255N	P=0.469N	P=0.320N	P=0.341N
POLY 6	P=0.261N	P=0.440N	P=0.298N	P=0.345N
COCH-ARM / FISHERS	P=0.245N	P=0.477N	P=0.339N	P=0.329N
MAX-ISO-POLY-3	P=0.304N	P=0.313N	P=0.186N	P=0.208N



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Pituitary Gland: Pars Distalis Hyperplasia Focal</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/48 (2%)	2/50 (4%)	1/48 (2%)	0/49 (0%)
POLY-3 RATE (b)	1/43.42	2/47.15	1/46.22	0/42.84
POLY-3 PERCENT (g)	2.3%	4.2%	2.2%	0%
TERMINAL (d)	1/38 (3%)	2/42 (5%)	1/39 (3%)	0/36 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.252N	P=0.529	P=0.746N	P=0.503N
POLY 1.5	P=0.252N	P=0.520	P=0.752N	P=0.502N
POLY 6	P=0.253N	P=0.538	P=0.741N	P=0.504N
COCH-ARM / FISHERS	P=0.245N	P=0.515	P=0.753N	P=0.495N
MAX-ISO-POLY-3	P=0.253N	P=0.310	P=0.482N	P=0.163N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Preputial Gland Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	12/49 (24%)	15/49 (31%)	7/50 (14%)	17/50 (34%)
POLY-3 RATE (b)	12/45.30	15/46.89	7/48.38	17/44.20
POLY-3 PERCENT (g)	26.5%	32%	14.5%	38.5%
TERMINAL (d)	11/40 (28%)	13/42 (31%)	6/41 (15%)	15/37 (41%)
FIRST INCIDENCE	603	654	688	652
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.210	P=0.363	P=0.116N	P=0.161
POLY 1.5	P=0.220	P=0.338	P=0.126N	P=0.171
POLY 6	P=0.198	P=0.393	P=0.108N	P=0.151
COCH-ARM / FISHERS	P=0.251	P=0.326	P=0.142N	P=0.207
MAX-ISO-POLY-3	P=0.108	P=0.285	P=0.079N	P=0.115

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Preputial Gland Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	13/49 (27%)	11/49 (22%)	10/50 (20%)	10/50 (20%)
POLY-3 RATE (b)	13/45.36	11/46.40	10/48.32	10/44.07
POLY-3 PERCENT (g)	28.7%	23.7%	20.7%	22.7%
TERMINAL (d)	12/40 (30%)	11/42 (26%)	9/41 (22%)	8/37 (22%)
FIRST INCIDENCE	581	729 (T)	704	691
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.303N	P=0.382N	P=0.257N	P=0.343N
POLY 1.5	P=0.291N	P=0.401N	P=0.272N	P=0.333N
POLY 6	P=0.316N	P=0.362N	P=0.243N	P=0.354N
COCH-ARM / FISHERS	P=0.261N	P=0.407N	P=0.298N	P=0.298N
MAX-ISO-POLY-3	P=0.367N	P=0.298N	P=0.192N	P=0.264N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Salivary Glands</b>				
Infiltration Cellular Lymphocyte				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	10/50 (20%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	3/45.42	10/47.21	4/48.34	3/43.84
POLY-3 PERCENT (g)	6.6%	21.2%	8.3%	6.8%
TERMINAL (d)	3/40 (8%)	9/42 (21%)	3/41 (7%)	3/37 (8%)
FIRST INCIDENCE	729 (T)	715	698	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.276N	P=0.041*	P=0.534	P=0.646
POLY 1.5	P=0.275N	P=0.037*	P=0.521	P=0.648
POLY 6	P=0.276N	P=0.045*	P=0.548	P=0.644
COCH-ARM / FISHERS	P=0.262N	P=0.036*	P=0.500	P=0.661N
MAX-ISO-POLY-3	P=0.230N	P=0.023*	P=0.382	P=0.481

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Skin</b>				
Cyst Epithelial Inclusion				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	2/47.15	0/48.22	0/43.84
POLY-3 PERCENT (g)	0%	4.2%	0%	0%
TERMINAL (d)	0/40 (0%)	2/42 (5%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	729 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.400N	P=0.246	(e)	(e)
POLY 1.5	P=0.404N	P=0.240	(e)	(e)
POLY 6	P=0.395N	P=0.251	(e)	(e)
COCH-ARM / FISHERS	P=0.405N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.273N	P=0.084	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Skin</b>				
<b>Edema</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/45.42	1/47.15	1/48.35	2/44.19
POLY-3 PERCENT (g)	0%	2.1%	2.1%	4.5%
TERMINAL (d)	0/40 (0%)	1/42 (2%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	729 (T)	696	677
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.147	P=0.507	P=0.512	P=0.231
POLY 1.5	P=0.148	P=0.503	P=0.508	P=0.231
POLY 6	P=0.146	P=0.513	P=0.518	P=0.231
COCH-ARM / FISHERS	P=0.153	P=0.500	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.121	P=0.168	P=0.174	P=0.076

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Skin</b>				
<b>Ulcer</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/45.42	2/47.15	0/48.22	2/44.04
POLY-3 PERCENT (g)	0%	4.2%	0%	4.5%
TERMINAL (d)	0/40 (0%)	2/42 (5%)	0/41 (0%)	1/37 (3%)
FIRST INCIDENCE	---	729 (T)	---	677
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.243	P=0.246	(e)	P=0.230
POLY 1.5	P=0.242	P=0.240	(e)	P=0.231
POLY 6	P=0.244	P=0.251	(e)	P=0.230
COCH-ARM / FISHERS	P=0.247	P=0.247	(e)	P=0.247
MAX-ISO-POLY-3	P=0.120	P=0.084	(e)	P=0.076

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Skin: Epidermis Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/45.42	0/47.15	2/48.22	1/44.04
POLY-3 PERCENT (g)	0%	0%	4.2%	2.3%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	2/41 (5%)	0/37 (0%)
FIRST INCIDENCE	---	---	729 (T)	677
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.227	(e)	P=0.251	P=0.494
POLY 1.5	P=0.232	(e)	P=0.246	P=0.494
POLY 6	P=0.222	(e)	P=0.256	P=0.494
COCH-ARM / FISHERS	P=0.246	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.190	(e)	P=0.089	P=0.158



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Spleen</b>				
<b>Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
OVERALL (a)	20/50 (40%)	26/50 (52%)	24/50 (48%)	25/49 (51%)
POLY-3 RATE (b)	20/47.71	26/48.01	24/49.53	25/48.00
POLY-3 PERCENT (g)	41.9%	54.2%	48.5%	52.1%
TERMINAL (d)	15/40 (38%)	22/42 (52%)	16/41 (39%)	14/37 (38%)
FIRST INCIDENCE	476	654	664	456
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.271	P=0.159	P=0.329	P=0.214
POLY 1.5	P=0.241	P=0.149	P=0.305	P=0.190
POLY 6	P=0.310	P=0.172	P=0.359	P=0.247
COCH-ARM / FISHERS	P=0.226	P=0.158	P=0.273	P=0.184
MAX-ISO-POLY-3	P=0.262	P=0.115	P=0.263	P=0.162

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Spleen: Lymphoid Follicle Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	3/50 (6%)	1/49 (2%)
POLY-3 RATE (b)	2/46.53	1/48.15	3/48.67	1/43.91
POLY-3 PERCENT (g)	4.3%	2.1%	6.2%	2.3%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	498	4	675	518
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.504N	P=0.488N	P=0.520	P=0.520N
POLY 1.5	P=0.499N	P=0.493N	P=0.512	P=0.518N
POLY 6	P=0.508N	P=0.483N	P=0.529	P=0.522N
COCH-ARM / FISHERS	P=0.482N	P=0.500N	P=0.500	P=0.508N
MAX-ISO-POLY-3	P=0.501N	P=0.274N	P=0.345	P=0.302N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Spleen: Lymphoid Follicle Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	5/50 (10%)	5/50 (10%)	3/49 (6%)
POLY-3 RATE (b)	1/45.42	5/47.15	5/48.22	3/43.27
POLY-3 PERCENT (g)	2.2%	10.6%	10.4%	6.9%
TERMINAL (d)	1/40 (3%)	5/42 (12%)	5/41 (12%)	3/37 (8%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.354	P=0.110	P=0.116	P=0.288
POLY 1.5	P=0.357	P=0.105	P=0.111	P=0.289
POLY 6	P=0.352	P=0.116	P=0.122	P=0.288
COCH-ARM / FISHERS	P=0.378	P=0.102	P=0.102	P=0.301
MAX-ISO-POLY-3	P=0.174	P=0.052	P=0.058	P=0.146

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Stomach, Forestomach Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	5/50 (10%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	4/45.42	5/47.43	3/48.22	3/44.81
POLY-3 PERCENT (g)	8.8%	10.5%	6.2%	6.7%
TERMINAL (d)	4/40 (10%)	4/42 (10%)	3/41 (7%)	1/37 (3%)
FIRST INCIDENCE	729 (T)	654	729 (T)	545
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.349N	P=0.527	P=0.467N	P=0.507N
POLY 1.5	P=0.350N	P=0.511	P=0.480N	P=0.510N
POLY 6	P=0.348N	P=0.546	P=0.455N	P=0.503N
COCH-ARM / FISHERS	P=0.341N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.467N	P=0.390	P=0.323N	P=0.355N

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Stomach, Forestomach: Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	7/50 (14%)	7/50 (14%)	8/50 (16%)	3/50 (6%)
POLY-3 RATE (b)	7/46.88	7/47.15	8/48.35	3/44.81
POLY-3 PERCENT (g)	14.9%	14.9%	16.6%	6.7%
TERMINAL (d)	4/40 (10%)	7/42 (17%)	7/41 (17%)	1/37 (3%)
FIRST INCIDENCE	498	729 (T)	696	545
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.153N	P=0.609N	P=0.526	P=0.176N
POLY 1.5	P=0.148N	P=0.610	P=0.516	P=0.173N
POLY 6	P=0.158N	P=0.602N	P=0.533	P=0.180N
COCH-ARM / FISHERS	P=0.131N	P=0.613N	P=0.500	P=0.159N
MAX-ISO-POLY-3	P=0.186N	P=0.495N	P=0.414	P=0.107N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Stomach, Glandular Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	3/50 (6%)	1/50 (2%)	0/49 (0%)
POLY-3 RATE (b)	1/45.42	3/47.15	1/48.22	0/43.27
POLY-3 PERCENT (g)	2.2%	6.4%	2.1%	0%
TERMINAL (d)	1/40 (3%)	3/42 (7%)	1/41 (2%)	0/37 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.207N	P=0.319	P=0.747N	P=0.510N
POLY 1.5	P=0.208N	P=0.311	P=0.752N	P=0.509N
POLY 6	P=0.205N	P=0.328	P=0.742N	P=0.510N
COCH-ARM / FISHERS	P=0.204N	P=0.309	P=0.753N	P=0.505N
MAX-ISO-POLY-3	P=0.181N	P=0.168	P=0.483N	P=0.169N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Stomach, Glandular Erosion</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	1/49 (2%)
POLY-3 RATE (b)	2/46.43	1/47.36	1/48.46	1/44.00
POLY-3 PERCENT (g)	4.3%	2.1%	2.1%	2.3%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	476	674	664	470
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.423N	P=0.493N	P=0.485N	P=0.519N
POLY 1.5	P=0.421N	P=0.499N	P=0.491N	P=0.517N
POLY 6	P=0.425N	P=0.487N	P=0.479N	P=0.520N
COCH-ARM / FISHERS	P=0.416N	P=0.500N	P=0.500N	P=0.508N
MAX-ISO-POLY-3	P=0.436N	P=0.277N	P=0.272N	P=0.300N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Testes: Germinal Epithelium Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	4/50 (8%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/45.42	4/47.15	2/48.34	1/43.84
POLY-3 PERCENT (g)	0%	8.5%	4.1%	2.3%
TERMINAL (d)	0/40 (0%)	4/42 (10%)	1/41 (2%)	1/37 (3%)
FIRST INCIDENCE	---	729 (T)	698	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.590N	P=0.065	P=0.251	P=0.493
POLY 1.5	P=0.590N	P=0.062	P=0.246	P=0.494
POLY 6	P=0.590N	P=0.069	P=0.257	P=0.492
COCH-ARM / FISHERS	P=0.577N	P=0.059	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.182	P=0.023*	P=0.090	P=0.158



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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Thymus Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/44 (7%)	8/43 (19%)	4/44 (9%)	6/40 (15%)
POLY-3 RATE (b)	3/40.50	8/42.42	4/43.15	6/36.76
POLY-3 PERCENT (g)	7.4%	18.9%	9.3%	16.3%
TERMINAL (d)	2/36 (6%)	5/37 (14%)	2/37 (5%)	3/32 (9%)
FIRST INCIDENCE	677	4	589	608
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.300	P=0.112	P=0.535	P=0.194
POLY 1.5	P=0.294	P=0.103	P=0.521	P=0.190
POLY 6	P=0.308	P=0.122	P=0.548	P=0.200
COCH-ARM / FISHERS	P=0.301	P=0.091	P=0.500	P=0.196
MAX-ISO-POLY-3	P=0.211	P=0.067	P=0.383	P=0.117

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Thymus Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/44 (2%)	2/43 (5%)	1/44 (2%)	4/40 (10%)
POLY-3 RATE (b)	1/40.30	2/40.64	1/42.57	4/35.97
POLY-3 PERCENT (g)	2.5%	4.9%	2.4%	11.1%
TERMINAL (d)	1/36 (3%)	2/37 (5%)	1/37 (3%)	4/32 (13%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.088	P=0.503	P=0.748N	P=0.144
POLY 1.5	P=0.088	P=0.495	P=0.753N	P=0.144
POLY 6	P=0.088	P=0.511	P=0.744N	P=0.145
COCH-ARM / FISHERS	P=0.091	P=0.491	P=0.753N	P=0.152
MAX-ISO-POLY-3	P=0.077	P=0.285	P=0.484N	P=0.070

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Thymus</b>				
<b>Hyperplasia Lymphoid</b>				
<b>LESION RATES</b>				
<b>OVERALL (a)</b>	1/44 (2%)	1/43 (2%)	0/44 (0%)	1/40 (3%)
<b>POLY-3 RATE (b)</b>	1/40.30	1/40.64	0/42.57	1/35.97
<b>POLY-3 PERCENT (g)</b>	2.5%	2.5%	0%	2.8%
<b>TERMINAL (d)</b>	1/36 (3%)	1/37 (3%)	0/37 (0%)	1/32 (3%)
<b>FIRST INCIDENCE</b>	729 (T)	729 (T)	---	729 (T)
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P=0.635N	P=0.759N	P=0.489N	P=0.735
<b>POLY 1.5</b>	P=0.636N	P=0.757	P=0.493N	P=0.734
<b>POLY 6</b>	P=0.634N	P=0.753N	P=0.485N	P=0.736
<b>COCH-ARM / FISHERS</b>	P=0.640N	P=0.747	P=0.500N	P=0.729
<b>MAX-ISO-POLY-3</b>	P=0.562N	P=0.497N	P=0.158N	P=0.468

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Thymus</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/44 (0%)	0/43 (0%)	0/44 (0%)	0/40 (0%)
POLY-3 RATE (b)	0/40.30	0/40.64	0/42.57	0/35.97
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/37 (0%)	0/37 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Thyroid Gland: Follicle Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	1/49 (2%)
POLY-3 RATE (b)	0/44.42	0/47.15	0/48.22	1/42.84
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/39 (0%)	0/42 (0%)	0/41 (0%)	1/36 (3%)
FIRST INCIDENCE	---	---	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.191	(e)	(e)	P=0.493
POLY 1.5	P=0.193	(e)	(e)	P=0.494
POLY 6	P=0.189	(e)	(e)	P=0.492
COCH-ARM / FISHERS	P=0.197	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.122	(e)	(e)	P=0.158

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Thyroid Gland: Follicle Degeneration Focal</b>				
<b>LESION RATES</b>				
OVERALL (a)	13/49 (27%)	10/50 (20%)	11/50 (22%)	16/49 (33%)
POLY-3 RATE (b)	13/45.30	10/47.15	11/48.34	16/43.92
POLY-3 PERCENT (g)	28.7%	21.2%	22.8%	36.4%
TERMINAL (d)	11/39 (28%)	10/42 (24%)	10/41 (24%)	13/36 (36%)
FIRST INCIDENCE	498	729 (T)	698	470
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.171	P=0.277N	P=0.337N	P=0.289
POLY 1.5	P=0.178	P=0.293N	P=0.356N	P=0.295
POLY 6	P=0.165	P=0.260N	P=0.319N	P=0.285
COCH-ARM / FISHERS	P=0.198	P=0.298N	P=0.385N	P=0.329
MAX-ISO-POLY-3	P=0.160	P=0.207N	P=0.262N	P=0.221

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Thyroid Gland: Follicular Cell Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/49 (0%)	1/50 (2%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/44.42	1/47.15	0/48.22	0/42.84
POLY-3 PERCENT (g)	0%	2.1%	0%	0%
TERMINAL (d)	0/39 (0%)	1/42 (2%)	0/41 (0%)	0/36 (0%)
FIRST INCIDENCE	---	729 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.560N	P=0.512	(e)	(e)
POLY 1.5	P=0.564N	P=0.507	(e)	(e)
POLY 6	P=0.555N	P=0.517	(e)	(e)
COCH-ARM / FISHERS	P=0.568N	P=0.505	(e)	(e)
MAX-ISO-POLY-3	P=0.408N	P=0.172	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Urinary Bladder Infiltration Cellular Lymphocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/45.42	0/47.15	0/48.22	0/43.84
POLY-3 PERCENT (g)	4.4%	0%	0%	0%
TERMINAL (d)	2/40 (5%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.113N	P=0.229N	P=0.224N	P=0.245N
POLY 1.5	P=0.112N	P=0.234N	P=0.229N	P=0.244N
POLY 6	P=0.114N	P=0.223N	P=0.219N	P=0.246N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.039N*	P=0.076N	P=0.076N	P=0.083N



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
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Date Report Requested: 09/09/2010  
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First Dose M/F: 06/30/03 / 06/30/03  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Adrenal Cortex</b>				
<b>Accessory Adrenal Cortical Nodule</b>				
<b>LESION RATES</b>				
OVERALL (a)	7/50 (14%)	5/49 (10%)	6/49 (12%)	9/50 (18%)
POLY-3 RATE (b)	7/44.53	5/41.89	6/46.41	9/48.18
POLY-3 PERCENT (g)	15.7%	11.9%	12.9%	18.7%
TERMINAL (d)	5/37 (14%)	3/33 (9%)	5/40 (13%)	7/41 (17%)
FIRST INCIDENCE	320	3	646	668
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.327	P=0.422N	P=0.468N	P=0.460
POLY 1.5	P=0.319	P=0.419N	P=0.470N	P=0.451
POLY 6	P=0.334	P=0.433N	P=0.472N	P=0.463
COCH-ARM / FISHERS	P=0.257	P=0.394N	P=0.516N	P=0.393
MAX-ISO-POLY-3	P=0.407	P=0.311N	P=0.355N	P=0.358

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Adrenal Cortex Hyperplasia Focal</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/49 (2%)	1/49 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/43.08	1/39.89	1/46.11	0/47.91
POLY-3 PERCENT (g)	4.6%	2.5%	2.2%	0%
TERMINAL (d)	2/37 (5%)	1/33 (3%)	1/40 (3%)	0/41 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.134N	P=0.527N	P=0.476N	P=0.214N
POLY 1.5	P=0.136N	P=0.528N	P=0.480N	P=0.218N
POLY 6	P=0.133N	P=0.530N	P=0.477N	P=0.213N
COCH-ARM / FISHERS	P=0.153N	P=0.508N	P=0.508N	P=0.247N
MAX-ISO-POLY-3	P=0.123N	P=0.308N	P=0.269N	P=0.076N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Adrenal Cortex</b>				
<b>Hypertrophy Focal</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/49 (0%)	1/49 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/43.08	0/39.89	1/46.11	2/47.91
POLY-3 PERCENT (g)	0%	0%	2.2%	4.2%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	1/40 (3%)	2/41 (5%)
FIRST INCIDENCE	---	---	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.089	(e)	P=0.514	P=0.262
POLY 1.5	P=0.086	(e)	P=0.512	P=0.258
POLY 6	P=0.090	(e)	P=0.513	P=0.264
COCH-ARM / FISHERS	P=0.071	(e)	P=0.495	P=0.247
MAX-ISO-POLY-3	P=0.111	(e)	P=0.177	P=0.099

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Adrenal Cortex: Capsule Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	5/49 (10%)	0/49 (0%)	4/50 (8%)
POLY-3 RATE (b)	1/43.08	5/39.93	0/46.11	4/47.91
POLY-3 PERCENT (g)	2.3%	12.5%	0%	8.4%
TERMINAL (d)	1/37 (3%)	4/33 (12%)	0/40 (0%)	4/41 (10%)
FIRST INCIDENCE	729 (T)	719	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.337	P=0.084	P=0.486N	P=0.213
POLY 1.5	P=0.329	P=0.083	P=0.488N	P=0.207
POLY 6	P=0.339	P=0.082	P=0.487N	P=0.216
COCH-ARM / FISHERS	P=0.294	P=0.098	P=0.505N	P=0.181
MAX-ISO-POLY-3	P=0.182	P=0.040*	P=0.160N	P=0.116

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
Time Report Requested: 12:54:20  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG

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Adrenal Cortex: Subcapsular  
Hyperplasia

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**LESION RATES**

OVERALL (a)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	0/39.89	0/46.11	0/47.91
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	---	---	---

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**STATISTICAL TESTS**

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Adrenal Medulla Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/47 (2%)	0/46 (0%)	1/48 (2%)
POLY-3 RATE (b)	1/43.08	1/38.89	0/43.65	1/45.98
POLY-3 PERCENT (g)	2.3%	2.6%	0%	2.2%
TERMINAL (d)	1/37 (3%)	1/32 (3%)	0/39 (0%)	1/40 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.607N	P=0.738	P=0.497N	P=0.746N
POLY 1.5	P=0.608N	P=0.737	P=0.500N	P=0.750N
POLY 6	P=0.605N	P=0.736	P=0.497N	P=0.744N
COCH-ARM / FISHERS	P=0.623N	P=0.737	P=0.521N	P=0.742
MAX-ISO-POLY-3	P=0.516N	P=0.471	P=0.164N	P=0.481N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Bone Marrow Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	19/50 (38%)	20/49 (41%)	13/49 (27%)	16/50 (32%)
POLY-3 RATE (b)	19/45.57	20/46.86	13/48.23	16/48.61
POLY-3 PERCENT (g)	41.7%	42.7%	27%	32.9%
TERMINAL (d)	12/37 (32%)	8/33 (24%)	7/40 (18%)	11/41 (27%)
FIRST INCIDENCE	246	4	483	647
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.147N	P=0.545	P=0.098N	P=0.253N
POLY 1.5	P=0.149N	P=0.521	P=0.105N	P=0.259N
POLY 6	P=0.153N	P=0.557	P=0.099N	P=0.259N
COCH-ARM / FISHERS	P=0.205N	P=0.468	P=0.157N	P=0.338N
MAX-ISO-POLY-3	P=0.185N	P=0.462	P=0.072N	P=0.197N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Bone Fibrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	2/49 (4%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/43.08	2/40.45	1/46.74	3/48.06
POLY-3 PERCENT (g)	2.3%	4.9%	2.1%	6.2%
TERMINAL (d)	1/37 (3%)	1/33 (3%)	1/40 (3%)	2/41 (5%)
FIRST INCIDENCE	729 (T)	554	729 (T)	691
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.283	P=0.478	P=0.742N	P=0.346
POLY 1.5	P=0.276	P=0.475	P=0.744N	P=0.338
POLY 6	P=0.286	P=0.478	P=0.744N	P=0.350
COCH-ARM / FISHERS	P=0.240	P=0.492	P=0.753N	P=0.309
MAX-ISO-POLY-3	P=0.291	P=0.267	P=0.477N	P=0.195



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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Bone Fracture</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/49 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/44.07	0/39.89	2/46.74	0/47.91
POLY-3 PERCENT (g)	2.3%	0%	4.3%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	2/40 (5%)	0/41 (0%)
FIRST INCIDENCE	142	---	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.417N	P=0.520N	P=0.520	P=0.483N
POLY 1.5	P=0.422N	P=0.520N	P=0.519	P=0.486N
POLY 6	P=0.413N	P=0.522N	P=0.518	P=0.482N
COCH-ARM / FISHERS	P=0.459N	P=0.505N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.329N	P=0.181N	P=0.303	P=0.158N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG

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**Bone: Cranium  
Osteopetrosis**

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**LESION RATES**

OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	0/39.89	0/46.74	0/47.91
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	---	---	---

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**STATISTICAL TESTS**

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Esophagus</b>				
<b>Inflammation Acute</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	6/48 (13%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	6/45.09	0/46.11	0/47.91
POLY-3 PERCENT (g)	0%	13.3%	0%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	3	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.112N	P=0.018*	(e)	(e)
POLY 1.5	P=0.118N	P=0.017*	(e)	(e)
POLY 6	P=0.111N	P=0.018*	(e)	(e)
COCH-ARM / FISHERS	P=0.162N	P=0.012*	(e)	(e)
MAX-ISO-POLY-3	P=0.058N	P=0.007**	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Esophagus</b>				
<b>Ulcer</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	4/48 (8%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	4/43.09	0/46.11	0/47.91
POLY-3 PERCENT (g)	0%	9.3%	0%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	3	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.205N	P=0.060	(e)	(e)
POLY 1.5	P=0.211N	P=0.059	(e)	(e)
POLY 6	P=0.204N	P=0.060	(e)	(e)
COCH-ARM / FISHERS	P=0.246N	P=0.054	(e)	(e)
MAX-ISO-POLY-3	P=0.114N	P=0.020*	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
Eye Cataract				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/49 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	0/39.89	2/46.74	0/47.91
POLY-3 PERCENT (g)	0%	0%	4.3%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	2/40 (5%)	0/41 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.661	(e)	P=0.256	(e)
POLY 1.5	P=0.652	(e)	P=0.254	(e)
POLY 6	P=0.667	(e)	P=0.254	(e)
COCH-ARM / FISHERS	P=0.596	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.289	(e)	P=0.094	(e)

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

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alpha/beta Thujone mixture  
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Lab: SRI

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Eye</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	2/49 (4%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	1/43.08	2/40.12	2/46.74	2/47.91
POLY-3 PERCENT (g)	2.3%	5%	4.3%	4.2%
TERMINAL (d)	1/37 (3%)	1/33 (3%)	2/40 (5%)	2/41 (5%)
FIRST INCIDENCE	729 (T)	669	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.487	P=0.475	P=0.528	P=0.537
POLY 1.5	P=0.478	P=0.473	P=0.526	P=0.531
POLY 6	P=0.492	P=0.474	P=0.526	P=0.540
COCH-ARM / FISHERS	P=0.425	P=0.492	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.495	P=0.266	P=0.312	P=0.321

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Eye: Cornea Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/49 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/43.08	1/40.12	2/46.74	1/47.91
POLY-3 PERCENT (g)	0%	2.5%	4.3%	2.1%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	2/40 (5%)	1/41 (2%)
FIRST INCIDENCE	---	669	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.428	P=0.486	P=0.256	P=0.521
POLY 1.5	P=0.419	P=0.484	P=0.254	P=0.518
POLY 6	P=0.433	P=0.485	P=0.254	P=0.523
COCH-ARM / FISHERS	P=0.369	P=0.495	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.268	P=0.157	P=0.094	P=0.184

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Gallbladder Pigmentation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/43 (0%)	0/39 (0%)	0/43 (0%)	2/46 (4%)
POLY-3 RATE (b)	0/38.43	0/36.39	0/40.91	2/44.94
POLY-3 PERCENT (g)	0%	0%	0%	4.5%
TERMINAL (d)	0/36 (0%)	0/32 (0%)	0/37 (0%)	0/39 (0%)
FIRST INCIDENCE	---	---	---	710
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.058	(e)	(e)	P=0.273
POLY 1.5	P=0.058	(e)	(e)	P=0.271
POLY 6	P=0.059	(e)	(e)	P=0.274
COCH-ARM / FISHERS	P=0.055	(e)	(e)	P=0.264
MAX-ISO-POLY-3	P=0.066	(e)	(e)	P=0.106



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Harderian Gland Hyperplasia Focal</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/49 (2%)	1/50 (2%)	1/49 (2%)
POLY-3 RATE (b)	1/43.08	1/39.89	1/46.74	1/47.41
POLY-3 PERCENT (g)	2.3%	2.5%	2.1%	2.1%
TERMINAL (d)	1/37 (3%)	1/33 (3%)	1/40 (3%)	1/41 (2%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.603N	P=0.743	P=0.742N	P=0.739N
POLY 1.5	P=0.608N	P=0.742	P=0.744N	P=0.744N
POLY 6	P=0.599N	P=0.742	P=0.744N	P=0.736N
COCH-ARM / FISHERS	P=0.630	P=0.747	P=0.753N	P=0.747
MAX-ISO-POLY-3	P=0.706N	P=0.478	P=0.477N	P=0.473N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Heart</b>				
<b>Cardiomyopathy</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/49 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	1/40.38	0/46.74	0/47.91
POLY-3 PERCENT (g)	0%	2.5%	0%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	585	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.564N	P=0.487	(e)	(e)
POLY 1.5	P=0.566N	P=0.485	(e)	(e)
POLY 6	P=0.564N	P=0.487	(e)	(e)
COCH-ARM / FISHERS	P=0.566N	P=0.495	(e)	(e)
MAX-ISO-POLY-3	P=0.377N	P=0.157	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Heart</b>				
<b>Inflammation Acute</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/49 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	2/41.89	0/46.74	0/47.91
POLY-3 PERCENT (g)	0%	4.8%	0%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	5	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.384N	P=0.231	(e)	(e)
POLY 1.5	P=0.388N	P=0.230	(e)	(e)
POLY 6	P=0.384N	P=0.229	(e)	(e)
COCH-ARM / FISHERS	P=0.404N	P=0.242	(e)	(e)
MAX-ISO-POLY-3	P=0.246N	P=0.075	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
Time Report Requested: 12:54:20  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Heart Mineralization</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	2/49 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/43.14	2/41.03	1/46.74	1/47.98
POLY-3 PERCENT (g)	2.3%	4.9%	2.1%	2.1%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	1/40 (3%)	0/41 (0%)
FIRST INCIDENCE	715	5	729 (T)	710
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.492N	P=0.483	P=0.742N	P=0.736N
POLY 1.5	P=0.497N	P=0.480	P=0.744N	P=0.740N
POLY 6	P=0.489N	P=0.481	P=0.744N	P=0.734N
COCH-ARM / FISHERS	P=0.528N	P=0.492	P=0.753N	P=0.753N
MAX-ISO-POLY-3	P=0.542N	P=0.270	P=0.477N	P=0.470N

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Intestine Large, Cecum Edema</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/48 (0%)	0/46 (0%)	0/46 (0%)	2/49 (4%)
POLY-3 RATE (b)	0/42.10	0/38.56	0/43.79	2/47.17
POLY-3 PERCENT (g)	0%	0%	0%	4.2%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/39 (0%)	0/41 (0%)
FIRST INCIDENCE	---	---	---	691
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.056	(e)	(e)	P=0.263
POLY 1.5	P=0.055	(e)	(e)	P=0.259
POLY 6	P=0.056	(e)	(e)	P=0.266
COCH-ARM / FISHERS	P=0.050*	(e)	(e)	P=0.253
MAX-ISO-POLY-3	P=0.057	(e)	(e)	P=0.100

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Islets, Pancreatic Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/48 (2%)	0/49 (0%)	2/48 (4%)	4/50 (8%)
POLY-3 RATE (b)	1/42.10	0/39.89	2/45.39	4/47.91
POLY-3 PERCENT (g)	2.4%	0%	4.4%	8.4%
TERMINAL (d)	1/37 (3%)	0/33 (0%)	2/40 (5%)	4/41 (10%)
FIRST INCIDENCE	729 (T)	---	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.058	P=0.511N	P=0.526	P=0.221
POLY 1.5	P=0.056	P=0.511N	P=0.523	P=0.216
POLY 6	P=0.059	P=0.513N	P=0.527	P=0.223
COCH-ARM / FISHERS	P=0.043*	P=0.495N	P=0.500	P=0.194
MAX-ISO-POLY-3	P=0.076	P=0.173N	P=0.309	P=0.122

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
Time Report Requested: 12:54:20  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Kidney Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	3/49 (6%)	0/49 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/43.08	3/39.89	0/46.11	1/48.06
POLY-3 PERCENT (g)	7%	7.5%	0%	2.1%
TERMINAL (d)	3/37 (8%)	3/33 (9%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	---	691
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.116N	P=0.627	P=0.107N	P=0.268N
POLY 1.5	P=0.119N	P=0.624	P=0.109N	P=0.274N
POLY 6	P=0.115N	P=0.623	P=0.107N	P=0.264N
COCH-ARM / FISHERS	P=0.134N	P=0.651	P=0.125N	P=0.309N
MAX-ISO-POLY-3	P=0.116N	P=0.462	P=0.038N*	P=0.142N

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Kidney Infarct</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	5/49 (10%)	6/49 (12%)	1/50 (2%)
POLY-3 RATE (b)	2/43.08	5/39.89	6/46.29	1/47.91
POLY-3 PERCENT (g)	4.6%	12.5%	13%	2.1%
TERMINAL (d)	2/37 (5%)	5/33 (15%)	5/40 (13%)	1/41 (2%)
FIRST INCIDENCE	729 (T)	729 (T)	682	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.236N	P=0.185	P=0.157	P=0.463N
POLY 1.5	P=0.248N	P=0.184	P=0.153	P=0.469N
POLY 6	P=0.229N	P=0.182	P=0.158	P=0.460N
COCH-ARM / FISHERS	P=0.318N	P=0.210	P=0.128	P=0.500N
MAX-ISO-POLY-3	P=0.139N	P=0.105	P=0.093	P=0.261N



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Kidney</b>				
<b>Infiltration Cellular Lymphocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	9/49 (18%)	5/49 (10%)	5/50 (10%)
POLY-3 RATE (b)	3/43.08	9/40.32	5/46.53	5/48.06
POLY-3 PERCENT (g)	7%	22.3%	10.8%	10.4%
TERMINAL (d)	3/37 (8%)	7/33 (21%)	4/40 (10%)	4/41 (10%)
FIRST INCIDENCE	729 (T)	669	609	691
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.488N	P=0.044*	P=0.400	P=0.418
POLY 1.5	P=0.505N	P=0.043*	P=0.392	P=0.407
POLY 6	P=0.479N	P=0.044*	P=0.402	P=0.424
COCH-ARM / FISHERS	P=0.534	P=0.056	P=0.346	P=0.357
MAX-ISO-POLY-3	P=0.261	P=0.025*	P=0.276	P=0.293

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
Time Report Requested: 12:54:20  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Kidney Metaplasia Osseous</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/49 (2%)	2/49 (4%)	3/50 (6%)
POLY-3 RATE (b)	1/43.08	1/40.12	2/46.11	3/47.98
POLY-3 PERCENT (g)	2.3%	2.5%	4.3%	6.3%
TERMINAL (d)	1/37 (3%)	0/33 (0%)	2/40 (5%)	2/41 (5%)
FIRST INCIDENCE	729 (T)	669	729 (T)	711
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.209	P=0.745	P=0.524	P=0.345
POLY 1.5	P=0.204	P=0.743	P=0.520	P=0.338
POLY 6	P=0.213	P=0.744	P=0.523	P=0.349
COCH-ARM / FISHERS	P=0.167	P=0.747	P=0.492	P=0.309
MAX-ISO-POLY-3	P=0.291	P=0.479	P=0.307	P=0.195

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Kidney</b>				
<b>Nephropathy</b>				
<b>LESION RATES</b>				
OVERALL (a)	11/50 (22%)	11/49 (22%)	5/49 (10%)	7/50 (14%)
POLY-3 RATE (b)	11/44.36	11/41.20	5/46.11	7/48.23
POLY-3 PERCENT (g)	24.8%	26.7%	10.8%	14.5%
TERMINAL (d)	9/37 (24%)	8/33 (24%)	5/40 (13%)	4/41 (10%)
FIRST INCIDENCE	320	524	729 (T)	691
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.072N	P=0.519	P=0.070N	P=0.162N
POLY 1.5	P=0.075N	P=0.509	P=0.071N	P=0.170N
POLY 6	P=0.069N	P=0.520	P=0.072N	P=0.158N
COCH-ARM / FISHERS	P=0.112N	P=0.574	P=0.093N	P=0.218N
MAX-ISO-POLY-3	P=0.094N	P=0.421	P=0.043N*	P=0.115N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Kidney: Renal Tubule Accumulation, Hyaline Droplet</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	2/49 (4%)	1/49 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/43.23	2/40.03	1/46.50	2/47.95
POLY-3 PERCENT (g)	2.3%	5%	2.2%	4.2%
TERMINAL (d)	0/37 (0%)	1/33 (3%)	0/40 (0%)	1/41 (2%)
FIRST INCIDENCE	691	694	617	719
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.496	P=0.473	P=0.744N	P=0.536
POLY 1.5	P=0.489	P=0.472	P=0.747N	P=0.530
POLY 6	P=0.499	P=0.470	P=0.744N	P=0.538
COCH-ARM / FISHERS	P=0.446	P=0.492	P=0.747	P=0.500
MAX-ISO-POLY-3	P=0.511	P=0.265	P=0.479N	P=0.320

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Kidney: Renal Tubule Pigmentation</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/49 (0%)	2/49 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/43.14	0/39.89	2/46.44	0/47.91
POLY-3 PERCENT (g)	2.3%	0%	4.3%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	1/40 (3%)	0/41 (0%)
FIRST INCIDENCE	715	---	638	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.414N	P=0.516N	P=0.526	P=0.479N
POLY 1.5	P=0.419N	P=0.516N	P=0.521	P=0.483N
POLY 6	P=0.410N	P=0.517N	P=0.526	P=0.478N
COCH-ARM / FISHERS	P=0.460N	P=0.505N	P=0.492	P=0.500N
MAX-ISO-POLY-3	P=0.334N	P=0.177N	P=0.309	P=0.158N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver</b>				
<b>Basophilic Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	2/49 (4%)	0/49 (0%)	4/50 (8%)
POLY-3 RATE (b)	1/43.08	2/40.12	0/46.11	4/47.91
POLY-3 PERCENT (g)	2.3%	5%	0%	8.4%
TERMINAL (d)	1/37 (3%)	1/33 (3%)	0/40 (0%)	4/41 (10%)
FIRST INCIDENCE	729 (T)	669	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.129	P=0.475	P=0.486N	P=0.213
POLY 1.5	P=0.127	P=0.473	P=0.488N	P=0.207
POLY 6	P=0.131	P=0.474	P=0.487N	P=0.216
COCH-ARM / FISHERS	P=0.110	P=0.492	P=0.505N	P=0.181
MAX-ISO-POLY-3	P=0.124	P=0.266	P=0.160N	P=0.116

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver</b>				
<b>Clear Cell Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	2/49 (4%)	4/49 (8%)	2/50 (4%)
POLY-3 RATE (b)	3/43.20	2/40.52	4/46.11	2/47.91
POLY-3 PERCENT (g)	7%	4.9%	8.7%	4.2%
TERMINAL (d)	2/37 (5%)	1/33 (3%)	4/40 (10%)	2/41 (5%)
FIRST INCIDENCE	700	524	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.407N	P=0.529N	P=0.536	P=0.453N
POLY 1.5	P=0.415N	P=0.533N	P=0.531	P=0.461N
POLY 6	P=0.403N	P=0.531N	P=0.533	P=0.450N
COCH-ARM / FISHERS	P=0.477N	P=0.510N	P=0.489	P=0.500N
MAX-ISO-POLY-3	P=0.482N	P=0.353N	P=0.384	P=0.293N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver</b>				
<b>Eosinophilic Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	3/49 (6%)	3/49 (6%)	4/50 (8%)
POLY-3 RATE (b)	3/43.08	3/39.99	3/46.11	4/48.21
POLY-3 PERCENT (g)	7%	7.5%	6.5%	8.3%
TERMINAL (d)	3/37 (8%)	2/33 (6%)	3/40 (8%)	3/41 (7%)
FIRST INCIDENCE	729 (T)	704	729 (T)	647
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.487	P=0.628	P=0.631N	P=0.561
POLY 1.5	P=0.476	P=0.625	P=0.635N	P=0.550
POLY 6	P=0.496	P=0.625	P=0.632N	P=0.568
COCH-ARM / FISHERS	P=0.407	P=0.651	P=0.651	P=0.500
MAX-ISO-POLY-3	P=0.635	P=0.463	P=0.466N	P=0.409



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver</b>				
<b>Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	3/49 (6%)	3/49 (6%)	2/50 (4%)
POLY-3 RATE (b)	3/43.44	3/40.12	3/46.11	2/47.91
POLY-3 PERCENT (g)	6.9%	7.5%	6.5%	4.2%
TERMINAL (d)	2/37 (5%)	2/33 (6%)	3/40 (8%)	2/41 (5%)
FIRST INCIDENCE	628	669	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.336N	P=0.625	P=0.634N	P=0.456N
POLY 1.5	P=0.343N	P=0.624	P=0.637N	P=0.462N
POLY 6	P=0.333N	P=0.621	P=0.638N	P=0.454N
COCH-ARM / FISHERS	P=0.395N	P=0.651	P=0.651	P=0.500N
MAX-ISO-POLY-3	P=0.458N	P=0.460	P=0.470N	P=0.294N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver</b>				
<b>Infiltration Cellular Lymphocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/49 (2%)	0/49 (0%)	4/50 (8%)
POLY-3 RATE (b)	2/43.08	1/40.09	0/46.11	4/47.91
POLY-3 PERCENT (g)	4.6%	2.5%	0%	8.4%
TERMINAL (d)	2/37 (5%)	0/33 (0%)	0/40 (0%)	4/41 (10%)
FIRST INCIDENCE	729 (T)	677	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.192	P=0.525N	P=0.222N	P=0.388
POLY 1.5	P=0.189	P=0.527N	P=0.225N	P=0.379
POLY 6	P=0.194	P=0.526N	P=0.223N	P=0.391
COCH-ARM / FISHERS	P=0.167	P=0.508N	P=0.253N	P=0.339
MAX-ISO-POLY-3	P=0.124	P=0.307N	P=0.077N	P=0.252

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	3/49 (6%)	2/49 (4%)	7/50 (14%)
POLY-3 RATE (b)	4/43.08	3/40.09	2/46.26	7/48.21
POLY-3 PERCENT (g)	9.3%	7.5%	4.3%	14.5%
TERMINAL (d)	4/37 (11%)	2/33 (6%)	1/40 (3%)	6/41 (15%)
FIRST INCIDENCE	729 (T)	677	691	647
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.195	P=0.539N	P=0.305N	P=0.329
POLY 1.5	P=0.188	P=0.543N	P=0.310N	P=0.317
POLY 6	P=0.200	P=0.541N	P=0.304N	P=0.337
COCH-ARM / FISHERS	P=0.148	P=0.511N	P=0.349N	P=0.262
MAX-ISO-POLY-3	P=0.182	P=0.386N	P=0.186N	P=0.236

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver</b>				
<b>Mixed Cell Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	5/49 (10%)	0/49 (0%)	5/50 (10%)
POLY-3 RATE (b)	1/43.08	5/41.05	0/46.11	5/47.91
POLY-3 PERCENT (g)	2.3%	12.2%	0%	10.4%
TERMINAL (d)	1/37 (3%)	3/33 (9%)	0/40 (0%)	5/41 (12%)
FIRST INCIDENCE	729 (T)	524	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.193	P=0.090	P=0.486N	P=0.128
POLY 1.5	P=0.187	P=0.087	P=0.488N	P=0.124
POLY 6	P=0.195	P=0.091	P=0.487N	P=0.130
COCH-ARM / FISHERS	P=0.162	P=0.098	P=0.505N	P=0.102
MAX-ISO-POLY-3	P=0.094	P=0.041*	P=0.160N	P=0.069

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver</b>				
<b>Necrosis Focal</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	6/49 (12%)	3/49 (6%)	0/50 (0%)
POLY-3 RATE (b)	2/44.04	6/40.51	3/46.11	0/47.91
POLY-3 PERCENT (g)	4.5%	14.8%	6.5%	0%
TERMINAL (d)	1/37 (3%)	4/33 (12%)	3/40 (8%)	0/41 (0%)
FIRST INCIDENCE	246	585	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.070N	P=0.107	P=0.521	P=0.219N
POLY 1.5	P=0.074N	P=0.105	P=0.518	P=0.222N
POLY 6	P=0.069N	P=0.106	P=0.519	P=0.218N
COCH-ARM / FISHERS	P=0.095N	P=0.128	P=0.490	P=0.247N
MAX-ISO-POLY-3	P=0.049N*	P=0.059	P=0.346	P=0.076N

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver</b>				
<b>Tension Lipidosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/49 (2%)	2/49 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/43.44	1/39.89	2/46.50	1/47.91
POLY-3 PERCENT (g)	2.3%	2.5%	4.3%	2.1%
TERMINAL (d)	0/37 (0%)	1/33 (3%)	1/40 (3%)	1/41 (2%)
FIRST INCIDENCE	628	729 (T)	617	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.602N	P=0.742	P=0.524	P=0.738N
POLY 1.5	P=0.607N	P=0.741	P=0.520	P=0.741N
POLY 6	P=0.600N	P=0.738	P=0.523	P=0.738N
COCH-ARM / FISHERS	P=0.592	P=0.747	P=0.492	P=0.753N
MAX-ISO-POLY-3	P=0.612N	P=0.476	P=0.307	P=0.472N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver: Centrilobular Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/49 (2%)	2/49 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	1/40.52	2/46.44	0/47.91
POLY-3 PERCENT (g)	0%	2.5%	4.3%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	1/40 (3%)	0/41 (0%)
FIRST INCIDENCE	---	524	638	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.569N	P=0.488	P=0.254	(e)
POLY 1.5	P=0.576N	P=0.486	P=0.251	(e)
POLY 6	P=0.565N	P=0.487	P=0.255	(e)
COCH-ARM / FISHERS	P=0.614N	P=0.495	P=0.242	(e)
MAX-ISO-POLY-3	P=0.336N	P=0.157	P=0.093	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver: Hepatocyte Vacuolization Cytoplasmic</b>				
<b>LESION RATES</b>				
OVERALL (a)	7/50 (14%)	3/49 (6%)	2/49 (4%)	2/50 (4%)
POLY-3 RATE (b)	7/44.77	3/39.89	2/46.11	2/48.12
POLY-3 PERCENT (g)	15.6%	7.5%	4.3%	4.2%
TERMINAL (d)	2/37 (5%)	3/33 (9%)	2/40 (5%)	0/41 (0%)
FIRST INCIDENCE	564	729 (T)	729 (T)	694
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.040N*	P=0.208N	P=0.072N	P=0.063N
POLY 1.5	P=0.041N*	P=0.202N	P=0.071N	P=0.064N
POLY 6	P=0.040N*	P=0.223N	P=0.077N	P=0.065N
COCH-ARM / FISHERS	P=0.056N	P=0.167N	P=0.085N	P=0.080N
MAX-ISO-POLY-3	P=0.032N*	P=0.137N	P=0.037N*	P=0.034N*



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Liver: Kupffer Cell Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/49 (2%)	1/49 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/43.34	1/39.89	1/46.53	1/47.91
POLY-3 PERCENT (g)	4.6%	2.5%	2.2%	2.1%
TERMINAL (d)	0/37 (0%)	1/33 (3%)	0/40 (0%)	1/41 (2%)
FIRST INCIDENCE	691	729 (T)	609	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.374N	P=0.529N	P=0.475N	P=0.465N
POLY 1.5	P=0.378N	P=0.529N	P=0.479N	P=0.470N
POLY 6	P=0.372N	P=0.534N	P=0.476N	P=0.464N
COCH-ARM / FISHERS	P=0.408N	P=0.508N	P=0.508N	P=0.500N
MAX-ISO-POLY-3	P=0.394N	P=0.311N	P=0.268N	P=0.262N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lung</b>				
<b>Foreign Body</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	8/49 (16%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	8/46.52	0/46.74	0/47.91
POLY-3 PERCENT (g)	0%	17.2%	0%	0%
TERMINAL (d)	0/37 (0%)	1/33 (3%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	3	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.063N	P=0.005**	(e)	(e)
POLY 1.5	P=0.068N	P=0.005**	(e)	(e)
POLY 6	P=0.062N	P=0.005**	(e)	(e)
COCH-ARM / FISHERS	P=0.110N	P=0.003**	(e)	(e)
MAX-ISO-POLY-3	P=0.028N*	P=0.002**	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lung Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/49 (0%)	1/50 (2%)	7/50 (14%)
POLY-3 RATE (b)	2/43.62	0/39.89	1/46.74	7/48.23
POLY-3 PERCENT (g)	4.6%	0%	2.1%	14.5%
TERMINAL (d)	1/37 (3%)	0/33 (0%)	1/40 (3%)	4/41 (10%)
FIRST INCIDENCE	564	---	729 (T)	691
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.008**	P=0.257N	P=0.476N	P=0.106
POLY 1.5	P=0.007**	P=0.257N	P=0.477N	P=0.101
POLY 6	P=0.008**	P=0.261N	P=0.480N	P=0.108
COCH-ARM / FISHERS	P=0.006**	P=0.253N	P=0.500N	P=0.080
MAX-ISO-POLY-3	P=0.009**	P=0.094N	P=0.267N	P=0.063

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lung</b>				
<b>Infiltration Cellular Lymphocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/49 (0%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	2/43.08	0/39.89	2/46.74	4/47.91
POLY-3 PERCENT (g)	4.6%	0%	4.3%	8.4%
TERMINAL (d)	2/37 (5%)	0/33 (0%)	2/40 (5%)	4/41 (10%)
FIRST INCIDENCE	729 (T)	---	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.145	P=0.254N	P=0.664N	P=0.388
POLY 1.5	P=0.141	P=0.256N	P=0.667N	P=0.379
POLY 6	P=0.148	P=0.256N	P=0.667N	P=0.391
COCH-ARM / FISHERS	P=0.113	P=0.253N	P=0.691N	P=0.339
MAX-ISO-POLY-3	P=0.152	P=0.091N	P=0.467N	P=0.252

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lung Inflammation Acute</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	4/49 (8%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	4/43.89	1/47.45	0/47.91
POLY-3 PERCENT (g)	0%	9.1%	2.1%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	3	483	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.246N	P=0.062	P=0.519	(e)
POLY 1.5	P=0.253N	P=0.062	P=0.517	(e)
POLY 6	P=0.243N	P=0.062	P=0.519	(e)
COCH-ARM / FISHERS	P=0.294N	P=0.056	P=0.500	(e)
MAX-ISO-POLY-3	P=0.157N	P=0.022*	P=0.182	(e)

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lung</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	2/49 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.08	2/41.89	0/46.74	0/47.91
POLY-3 PERCENT (g)	2.3%	4.8%	0%	0%
TERMINAL (d)	1/37 (3%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	729 (T)	3	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.174N	P=0.490	P=0.484N	P=0.479N
POLY 1.5	P=0.176N	P=0.488	P=0.485N	P=0.482N
POLY 6	P=0.173N	P=0.488	P=0.485N	P=0.477N
COCH-ARM / FISHERS	P=0.187N	P=0.492	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.167N	P=0.274	P=0.158N	P=0.158N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lung Thrombosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/49 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/43.08	0/39.89	0/46.74	1/48.05
POLY-3 PERCENT (g)	2.3%	0%	0%	2.1%
TERMINAL (d)	1/37 (3%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	729 (T)	---	---	694
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.623	P=0.515N	P=0.484N	P=0.736N
POLY 1.5	P=0.620	P=0.516N	P=0.485N	P=0.740N
POLY 6	P=0.626	P=0.517N	P=0.485N	P=0.733N
COCH-ARM / FISHERS	P=0.596	P=0.505N	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.401N	P=0.176N	P=0.158N	P=0.470N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lung: Alveolar Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/49 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/44.00	1/39.89	1/46.74	0/47.91
POLY-3 PERCENT (g)	2.3%	2.5%	2.1%	0%
TERMINAL (d)	0/37 (0%)	1/33 (3%)	1/40 (3%)	0/41 (0%)
FIRST INCIDENCE	320	729 (T)	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.288N	P=0.739	P=0.747N	P=0.483N
POLY 1.5	P=0.290N	P=0.739	P=0.747N	P=0.486N
POLY 6	P=0.286N	P=0.736	P=0.749N	P=0.482N
COCH-ARM / FISHERS	P=0.310N	P=0.747	P=0.753N	P=0.500N
MAX-ISO-POLY-3	P=0.317N	P=0.472	P=0.482N	P=0.158N



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lymph Node, Mandibular Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/48 (4%)	0/46 (0%)	1/45 (2%)	0/48 (0%)
POLY-3 RATE (b)	2/41.14	0/37.51	1/42.39	0/45.91
POLY-3 PERCENT (g)	4.9%	0%	2.4%	0%
TERMINAL (d)	2/36 (6%)	0/32 (0%)	1/37 (3%)	0/39 (0%)
FIRST INCIDENCE	729 (T)	---	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.169N	P=0.258N	P=0.490N	P=0.214N
POLY 1.5	P=0.170N	P=0.260N	P=0.494N	P=0.217N
POLY 6	P=0.168N	P=0.258N	P=0.489N	P=0.212N
COCH-ARM / FISHERS	P=0.189N	P=0.258N	P=0.524N	P=0.247N
MAX-ISO-POLY-3	P=0.081N	P=0.093N	P=0.278N	P=0.076N

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)**  
**TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lymph Node, Mandibular Hyperplasia Lymphoid</b>				
<b>LESION RATES</b>				
OVERALL (a)	9/48 (19%)	6/46 (13%)	7/45 (16%)	2/48 (4%)
POLY-3 RATE (b)	9/41.78	6/37.94	7/42.39	2/45.91
POLY-3 PERCENT (g)	21.5%	15.8%	16.5%	4.4%
TERMINAL (d)	7/36 (19%)	4/32 (13%)	7/37 (19%)	2/39 (5%)
FIRST INCIDENCE	580	669	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.014N*	P=0.358N	P=0.379N	P=0.016N*
POLY 1.5	P=0.015N*	P=0.365N	P=0.384N	P=0.017N*
POLY 6	P=0.014N*	P=0.358N	P=0.387N	P=0.016N*
COCH-ARM / FISHERS	P=0.028N*	P=0.319N	P=0.448N	P=0.025N*
MAX-ISO-POLY-3	P=0.019N*	P=0.266N	P=0.284N	P=0.009N**

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lymph Node, Mandibular Pigmentation</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/48 (8%)	3/46 (7%)	4/45 (9%)	3/48 (6%)
POLY-3 RATE (b)	4/41.25	3/38.14	4/42.79	3/46.35
POLY-3 PERCENT (g)	9.7%	7.9%	9.4%	6.5%
TERMINAL (d)	3/36 (8%)	2/32 (6%)	3/37 (8%)	0/39 (0%)
FIRST INCIDENCE	700	524	617	668
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.379N	P=0.543N	P=0.623N	P=0.437N
POLY 1.5	P=0.389N	P=0.551N	P=0.631N	P=0.448N
POLY 6	P=0.372N	P=0.541N	P=0.621N	P=0.430N
COCH-ARM / FISHERS	P=0.459N	P=0.524N	P=0.606	P=0.500N
MAX-ISO-POLY-3	P=0.485N	P=0.389N	P=0.478N	P=0.302N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lymph Node, Mesenteric Angiectasis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/46 (0%)	0/49 (0%)	0/46 (0%)	0/48 (0%)
POLY-3 RATE (b)	0/40.33	0/39.89	0/43.50	0/45.91
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/33 (0%)	0/38 (0%)	0/39 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lymph Node, Mesenteric Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/46 (0%)	2/49 (4%)	1/46 (2%)	1/48 (2%)
POLY-3 RATE (b)	0/40.33	2/41.52	1/43.63	1/45.91
POLY-3 PERCENT (g)	0%	4.8%	2.3%	2.2%
TERMINAL (d)	0/36 (0%)	0/33 (0%)	0/38 (0%)	1/39 (3%)
FIRST INCIDENCE	---	5	698	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.547	P=0.243	P=0.516	P=0.526
POLY 1.5	P=0.541	P=0.242	P=0.514	P=0.523
POLY 6	P=0.549	P=0.242	P=0.516	P=0.526
COCH-ARM / FISHERS	P=0.506	P=0.263	P=0.500	P=0.511
MAX-ISO-POLY-3	P=0.302	P=0.079	P=0.178	P=0.187

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lymph Node, Mesenteric Ectasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/46 (2%)	0/49 (0%)	0/46 (0%)	2/48 (4%)
POLY-3 RATE (b)	1/40.33	0/39.89	0/43.50	2/45.91
POLY-3 PERCENT (g)	2.5%	0%	0%	4.4%
TERMINAL (d)	1/36 (3%)	0/33 (0%)	0/38 (0%)	2/39 (5%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.275	P=0.502N	P=0.485N	P=0.545
POLY 1.5	P=0.273	P=0.502N	P=0.486N	P=0.541
POLY 6	P=0.277	P=0.505N	P=0.485N	P=0.546
COCH-ARM / FISHERS	P=0.250	P=0.484N	P=0.500N	P=0.516
MAX-ISO-POLY-3	P=0.185	P=0.165N	P=0.158N	P=0.328

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

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS

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DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lymph Node, Mesenteric Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/46 (0%)	0/49 (0%)	1/46 (2%)	1/48 (2%)
POLY-3 RATE (b)	0/40.33	0/39.89	1/43.50	1/45.91
POLY-3 PERCENT (g)	0%	0%	2.3%	2.2%
TERMINAL (d)	0/36 (0%)	0/33 (0%)	1/38 (3%)	1/39 (3%)
FIRST INCIDENCE	---	---	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.275	(e)	P=0.515	P=0.526
POLY 1.5	P=0.271	(e)	P=0.514	P=0.523
POLY 6	P=0.277	(e)	P=0.515	P=0.526
COCH-ARM / FISHERS	P=0.239	(e)	P=0.500	P=0.511
MAX-ISO-POLY-3	P=0.291	(e)	P=0.177	P=0.187

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lymph Node, Mesenteric Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/46 (4%)	4/49 (8%)	1/46 (2%)	4/48 (8%)
POLY-3 RATE (b)	2/40.33	4/40.19	1/43.50	4/45.91
POLY-3 PERCENT (g)	5%	10%	2.3%	8.7%
TERMINAL (d)	2/36 (6%)	2/33 (6%)	1/38 (3%)	4/39 (10%)
FIRST INCIDENCE	729 (T)	677	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.417	P=0.335	P=0.474N	P=0.399
POLY 1.5	P=0.411	P=0.334	P=0.476N	P=0.393
POLY 6	P=0.418	P=0.332	P=0.475N	P=0.400
COCH-ARM / FISHERS	P=0.367	P=0.369	P=0.500N	P=0.359
MAX-ISO-POLY-3	P=0.403	P=0.203	P=0.266N	P=0.260



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Lymph Node, Mesenteric Hyperplasia Lymphoid</b>				
<b>LESION RATES</b>				
OVERALL (a)	6/46 (13%)	6/49 (12%)	2/46 (4%)	7/48 (15%)
POLY-3 RATE (b)	6/40.84	6/39.89	2/43.50	7/45.91
POLY-3 PERCENT (g)	14.7%	15%	4.6%	15.3%
TERMINAL (d)	4/36 (11%)	6/33 (18%)	2/38 (5%)	7/39 (18%)
FIRST INCIDENCE	628	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.562N	P=0.605	P=0.112N	P=0.590
POLY 1.5	P=0.563	P=0.609	P=0.113N	P=0.585
POLY 6	P=0.562N	P=0.590	P=0.116N	P=0.585
COCH-ARM / FISHERS	P=0.500	P=0.575N	P=0.133N	P=0.533
MAX-ISO-POLY-3	P=0.413N	P=0.482	P=0.062N	P=0.471

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Mammary Gland Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	5/49 (10%)	3/50 (6%)	6/50 (12%)
POLY-3 RATE (b)	5/43.46	5/41.11	3/47.01	6/48.93
POLY-3 PERCENT (g)	11.5%	12.2%	6.4%	12.3%
TERMINAL (d)	3/37 (8%)	2/33 (6%)	1/40 (3%)	2/41 (5%)
FIRST INCIDENCE	669	566	691	579
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.544	P=0.595	P=0.314N	P=0.582
POLY 1.5	P=0.531	P=0.587	P=0.318N	P=0.566
POLY 6	P=0.553	P=0.597	P=0.318N	P=0.592
COCH-ARM / FISHERS	P=0.456	P=0.617	P=0.357N	P=0.500
MAX-ISO-POLY-3	P=0.565N	P=0.463	P=0.206N	P=0.457

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Mesentery: Fat Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	8/10 (80%)	6/6 (100%)	3/5 (60%)	6/6 (100%)
POLY-3 RATE (b)	8/9.89	6/6.00	3/5.00	6/6.00
POLY-3 PERCENT (g)	80.9%	100%	60%	100%
TERMINAL (d)	8/9 (89%)	5/5 (100%)	2/4 (50%)	4/4 (100%)
FIRST INCIDENCE	729 (T)	554	691	691
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.386	P=0.367	P=0.407N	P=0.367
POLY 1.5	P=0.378	P=0.359	P=0.414N	P=0.359
POLY 6	P=0.403	P=0.383	P=0.393N	P=0.383
COCH-ARM / FISHERS	P=0.371	P=0.375	P=0.407N	P=0.375
MAX-ISO-POLY-3	P=0.266	P=0.152	P=0.233N	P=0.152

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Nose</b>				
<b>Foreign Body</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	4/49 (8%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.04	4/42.51	0/46.74	0/47.91
POLY-3 PERCENT (g)	2.3%	9.4%	0%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	246	3	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.108N	P=0.168	P=0.488N	P=0.483N
POLY 1.5	P=0.111N	P=0.166	P=0.489N	P=0.486N
POLY 6	P=0.107N	P=0.168	P=0.490N	P=0.482N
COCH-ARM / FISHERS	P=0.125N	P=0.175	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.077N	P=0.080	P=0.158N	P=0.158N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Nose</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	4/49 (8%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	2/43.08	4/39.89	2/46.92	0/47.91
POLY-3 PERCENT (g)	4.6%	10%	4.3%	0%
TERMINAL (d)	2/37 (5%)	4/33 (12%)	1/40 (3%)	0/41 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	682	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.085N	P=0.302	P=0.663N	P=0.214N
POLY 1.5	P=0.089N	P=0.300	P=0.666N	P=0.218N
POLY 6	P=0.083N	P=0.298	P=0.664N	P=0.213N
COCH-ARM / FISHERS	P=0.110N	P=0.329	P=0.691N	P=0.247N
MAX-ISO-POLY-3	P=0.086N	P=0.181	P=0.466N	P=0.076N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Ovary</b>				
<b>Angiectasis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/48 (2%)	1/47 (2%)	2/49 (4%)	4/48 (8%)
POLY-3 RATE (b)	1/41.14	1/38.89	2/46.44	4/45.98
POLY-3 PERCENT (g)	2.4%	2.6%	4.3%	8.7%
TERMINAL (d)	1/36 (3%)	1/32 (3%)	1/40 (3%)	4/40 (10%)
FIRST INCIDENCE	729 (T)	729 (T)	638	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.096	P=0.748	P=0.542	P=0.214
POLY 1.5	P=0.093	P=0.747	P=0.537	P=0.208
POLY 6	P=0.099	P=0.746	P=0.543	P=0.217
COCH-ARM / FISHERS	P=0.073	P=0.747	P=0.508	P=0.181
MAX-ISO-POLY-3	P=0.149	P=0.484	P=0.325	P=0.118

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
Ovary Cyst				
<b>LESION RATES</b>				
OVERALL (a)	15/48 (31%)	14/47 (30%)	14/49 (29%)	14/48 (29%)
POLY-3 RATE (b)	15/42.25	14/39.13	14/46.56	14/46.19
POLY-3 PERCENT (g)	35.5%	35.8%	30.1%	30.3%
TERMINAL (d)	13/36 (36%)	12/32 (38%)	12/40 (30%)	12/40 (30%)
FIRST INCIDENCE	296	677	646	694
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.307N	P=0.581	P=0.375N	P=0.385N
POLY 1.5	P=0.326N	P=0.580	P=0.387N	P=0.403N
POLY 6	P=0.293N	P=0.570	P=0.374N	P=0.375N
COCH-ARM / FISHERS	P=0.455N	P=0.527N	P=0.473N	P=0.500N
MAX-ISO-POLY-3	P=0.480N	P=0.489	P=0.301N	P=0.310N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Ovary Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	7/48 (15%)	5/47 (11%)	13/49 (27%)	10/48 (21%)
POLY-3 RATE (b)	7/41.14	5/39.12	13/46.26	10/46.21
POLY-3 PERCENT (g)	17%	12.8%	28.1%	21.6%
TERMINAL (d)	7/36 (19%)	4/32 (13%)	12/40 (30%)	9/40 (23%)
FIRST INCIDENCE	729 (T)	669	691	668
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.240	P=0.414N	P=0.164	P=0.393
POLY 1.5	P=0.223	P=0.420N	P=0.158	P=0.375
POLY 6	P=0.253	P=0.417N	P=0.164	P=0.404
COCH-ARM / FISHERS	P=0.139	P=0.395N	P=0.114	P=0.297
MAX-ISO-POLY-3	P=0.219	P=0.302N	P=0.121	P=0.304



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Ovary Pigmentation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/48 (0%)	0/47 (0%)	2/49 (4%)	0/48 (0%)
POLY-3 RATE (b)	0/41.14	0/38.89	2/46.11	0/45.98
POLY-3 PERCENT (g)	0%	0%	4.3%	0%
TERMINAL (d)	0/36 (0%)	0/32 (0%)	2/40 (5%)	0/40 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.661	(e)	P=0.263	(e)
POLY 1.5	P=0.651	(e)	P=0.261	(e)
POLY 6	P=0.667	(e)	P=0.263	(e)
COCH-ARM / FISHERS	P=0.597	(e)	P=0.253	(e)
MAX-ISO-POLY-3	P=0.295	(e)	P=0.100	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Pancreas Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/48 (4%)	1/49 (2%)	2/48 (4%)	1/50 (2%)
POLY-3 RATE (b)	2/42.10	1/39.89	2/45.39	1/48.05
POLY-3 PERCENT (g)	4.8%	2.5%	4.4%	2.1%
TERMINAL (d)	2/37 (5%)	1/33 (3%)	2/40 (5%)	0/41 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	694
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.386N	P=0.519N	P=0.666N	P=0.454N
POLY 1.5	P=0.392N	P=0.519N	P=0.670N	P=0.460N
POLY 6	P=0.381N	P=0.522N	P=0.666N	P=0.451N
COCH-ARM / FISHERS	P=0.432N	P=0.492N	P=0.692N	P=0.485N
MAX-ISO-POLY-3	P=0.411N	P=0.302N	P=0.470N	P=0.255N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Pancreas</b>				
<b>Basophilic Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/48 (2%)	1/49 (2%)	1/48 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/42.10	1/39.89	1/45.39	0/47.91
POLY-3 PERCENT (g)	2.4%	2.5%	2.2%	0%
TERMINAL (d)	1/37 (3%)	1/33 (3%)	1/40 (3%)	0/41 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.281N	P=0.749	P=0.744N	P=0.474N
POLY 1.5	P=0.284N	P=0.748	P=0.746N	P=0.477N
POLY 6	P=0.279N	P=0.747	P=0.743N	P=0.473N
COCH-ARM / FISHERS	P=0.304N	P=0.747N	P=0.753N	P=0.490N
MAX-ISO-POLY-3	P=0.321N	P=0.484	P=0.478N	P=0.156N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Pancreas Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/48 (2%)	0/49 (0%)	2/48 (4%)	3/50 (6%)
POLY-3 RATE (b)	1/42.10	0/39.89	2/45.39	3/48.54
POLY-3 PERCENT (g)	2.4%	0%	4.4%	6.2%
TERMINAL (d)	1/37 (3%)	0/33 (0%)	2/40 (5%)	1/41 (2%)
FIRST INCIDENCE	729 (T)	---	729 (T)	579
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.144	P=0.511N	P=0.526	P=0.358
POLY 1.5	P=0.138	P=0.511N	P=0.523	P=0.351
POLY 6	P=0.149	P=0.513N	P=0.527	P=0.364
COCH-ARM / FISHERS	P=0.111	P=0.495N	P=0.500	P=0.324
MAX-ISO-POLY-3	P=0.173	P=0.173N	P=0.309	P=0.206

TDMS No. 99037 - 06  
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 Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Pancreas</b>				
<b>Infiltration Cellular Lymphocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/48 (6%)	0/49 (0%)	1/48 (2%)	1/50 (2%)
POLY-3 RATE (b)	3/42.25	0/39.89	1/45.39	1/47.91
POLY-3 PERCENT (g)	7.1%	0%	2.2%	2.1%
TERMINAL (d)	2/37 (5%)	0/33 (0%)	1/40 (3%)	1/41 (2%)
FIRST INCIDENCE	691	---	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.256N	P=0.129N	P=0.280N	P=0.262N
POLY 1.5	P=0.258N	P=0.129N	P=0.283N	P=0.266N
POLY 6	P=0.253N	P=0.131N	P=0.281N	P=0.260N
COCH-ARM / FISHERS	P=0.287N	P=0.117N	P=0.308N	P=0.293N
MAX-ISO-POLY-3	P=0.098N	P=0.047N*	P=0.145N	P=0.137N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Pancreas: Acinus Cytoplasmic Alteration</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/48 (4%)	0/49 (0%)	1/48 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/42.25	0/39.89	1/45.54	0/47.91
POLY-3 PERCENT (g)	4.7%	0%	2.2%	0%
TERMINAL (d)	1/37 (3%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	691	---	691	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.163N	P=0.250N	P=0.474N	P=0.210N
POLY 1.5	P=0.164N	P=0.250N	P=0.477N	P=0.213N
POLY 6	P=0.161N	P=0.253N	P=0.474N	P=0.209N
COCH-ARM / FISHERS	P=0.183N	P=0.242N	P=0.500N	P=0.237N
MAX-ISO-POLY-3	P=0.075N	P=0.089N	P=0.266N	P=0.073N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Parathyroid Gland Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/45 (4%)	0/42 (0%)	1/46 (2%)	0/47 (0%)
POLY-3 RATE (b)	2/39.23	0/35.38	1/43.45	0/45.06
POLY-3 PERCENT (g)	5.1%	0%	2.3%	0%
TERMINAL (d)	2/35 (6%)	0/29 (0%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	729 (T)	---	483	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.163N	P=0.260N	P=0.464N	P=0.207N
POLY 1.5	P=0.164N	P=0.260N	P=0.465N	P=0.209N
POLY 6	P=0.161N	P=0.265N	P=0.470N	P=0.208N
COCH-ARM / FISHERS	P=0.178N	P=0.265N	P=0.492N	P=0.237N
MAX-ISO-POLY-3	P=0.077N	P=0.094N	P=0.260N	P=0.073N

TDMS No. 99037 - 06  
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P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Pituitary Gland: Pars Distalis Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/49 (6%)	2/48 (4%)	0/48 (0%)	3/49 (6%)
POLY-3 RATE (b)	3/43.07	2/38.89	0/45.11	3/46.91
POLY-3 PERCENT (g)	7%	5.1%	0%	6.4%
TERMINAL (d)	3/37 (8%)	2/32 (6%)	0/39 (0%)	3/40 (8%)
FIRST INCIDENCE	729 (T)	729 (T)	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.563N	P=0.546N	P=0.111N	P=0.622N
POLY 1.5	P=0.566N	P=0.547N	P=0.112N	P=0.630N
POLY 6	P=0.561N	P=0.551N	P=0.111N	P=0.619N
COCH-ARM / FISHERS	P=0.594N	P=0.510N	P=0.125N	P=0.661N
MAX-ISO-POLY-3	P=0.337N	P=0.371N	P=0.038N*	P=0.458N



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Pituitary Gland: Pars Distalis Hyperplasia Focal</b>				
<b>LESION RATES</b>				
OVERALL (a)	9/49 (18%)	4/48 (8%)	7/48 (15%)	4/49 (8%)
POLY-3 RATE (b)	9/43.07	4/38.89	7/45.11	4/46.91
POLY-3 PERCENT (g)	20.9%	10.3%	15.5%	8.5%
TERMINAL (d)	9/37 (24%)	4/32 (13%)	7/39 (18%)	4/40 (10%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.097N	P=0.156N	P=0.353N	P=0.085N
POLY 1.5	P=0.103N	P=0.158N	P=0.360N	P=0.090N
POLY 6	P=0.092N	P=0.160N	P=0.355N	P=0.082N
COCH-ARM / FISHERS	P=0.150N	P=0.124N	P=0.410N	P=0.116N
MAX-ISO-POLY-3	P=0.077N	P=0.104N	P=0.263N	P=0.053N

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Salivary Glands</b>				
<b>Infiltration Cellular Lymphocyte</b>				
<b>LESION RATES</b>				
<b>OVERALL (a)</b>	11/49 (22%)	13/48 (27%)	19/49 (39%)	13/50 (26%)
<b>POLY-3 RATE (b)</b>	11/42.63	13/39.67	19/46.44	13/48.73
<b>POLY-3 PERCENT (g)</b>	25.8%	32.8%	40.9%	26.7%
<b>TERMINAL (d)</b>	10/37 (27%)	11/33 (33%)	18/40 (45%)	11/41 (27%)
<b>FIRST INCIDENCE</b>	580	677	609	543
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P=0.510N	P=0.326	P=0.098	P=0.556
<b>POLY 1.5</b>	P=0.540N	P=0.319	P=0.095	P=0.534
<b>POLY 6</b>	P=0.492N	P=0.322	P=0.094	P=0.568
<b>COCH-ARM / FISHERS</b>	P=0.369	P=0.385	P=0.062	P=0.430
<b>MAX-ISO-POLY-3</b>	P=0.360	P=0.251	P=0.072	P=0.463

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Skin</b>				
<b>Cyst Epithelial Inclusion</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.08	0/39.89	0/46.74	1/47.91
POLY-3 PERCENT (g)	0%	0%	0%	2.1%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	1/41 (2%)
FIRST INCIDENCE	---	---	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.219	(e)	(e)	P=0.521
POLY 1.5	P=0.217	(e)	(e)	P=0.518
POLY 6	P=0.221	(e)	(e)	P=0.523
COCH-ARM / FISHERS	P=0.200	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.162	(e)	(e)	P=0.184

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Skin</b>				
<b>Edema</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/49 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.08	1/39.89	0/46.74	1/48.06
POLY-3 PERCENT (g)	0%	2.5%	0%	2.1%
TERMINAL (d)	0/37 (0%)	1/33 (3%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	729 (T)	---	691
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.437	P=0.485	(e)	P=0.522
POLY 1.5	P=0.431	P=0.484	(e)	P=0.518
POLY 6	P=0.439	P=0.483	(e)	P=0.524
COCH-ARM / FISHERS	P=0.407	P=0.495	(e)	P=0.500
MAX-ISO-POLY-3	P=0.299	P=0.157	(e)	P=0.185

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Skin</b>				
<b>Ulcer</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/49 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/44.13	1/40.09	0/46.74	0/47.91
POLY-3 PERCENT (g)	4.5%	2.5%	0%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	142	677	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.094N	P=0.533N	P=0.225N	P=0.219N
POLY 1.5	P=0.094N	P=0.535N	P=0.226N	P=0.223N
POLY 6	P=0.093N	P=0.536N	P=0.226N	P=0.218N
COCH-ARM / FISHERS	P=0.100N	P=0.508N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.078N	P=0.316N	P=0.076N	P=0.076N

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
Time Report Requested: 12:54:20  
First Dose M/F: 06/30/03 / 06/30/03  
Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Skin: Epidermis Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	0/39.89	0/46.74	0/47.91
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Spleen</b>				
<b>Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
OVERALL (a)	33/50 (66%)	39/49 (80%)	36/48 (75%)	37/50 (74%)
POLY-3 RATE (b)	33/46.27	39/46.00	36/47.55	37/48.54
POLY-3 PERCENT (g)	71.3%	84.8%	75.7%	76.2%
TERMINAL (d)	26/37 (70%)	26/33 (79%)	30/40 (75%)	32/41 (78%)
FIRST INCIDENCE	246	4	483	647
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.509	P=0.092	P=0.401	P=0.377
POLY 1.5	P=0.515	P=0.074	P=0.371	P=0.373
POLY 6	P=0.479	P=0.110	P=0.416	P=0.360
COCH-ARM / FISHERS	P=0.329	P=0.098	P=0.226	P=0.257
MAX-ISO-POLY-3	P=0.317	P=0.057	P=0.318	P=0.295

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Spleen: Lymphoid Follicle Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/48 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.08	0/39.89	0/45.39	1/48.50
POLY-3 PERCENT (g)	0%	0%	0%	2.1%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	---	---	543
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.222	(e)	(e)	P=0.524
POLY 1.5	P=0.219	(e)	(e)	P=0.519
POLY 6	P=0.225	(e)	(e)	P=0.526
COCH-ARM / FISHERS	P=0.200	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.169	(e)	(e)	P=0.187



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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Spleen: Lymphoid Follicle Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	12/50 (24%)	14/49 (29%)	12/48 (25%)	17/50 (34%)
POLY-3 RATE (b)	12/44.00	14/41.39	12/45.39	17/47.91
POLY-3 PERCENT (g)	27.3%	33.8%	26.4%	35.5%
TERMINAL (d)	11/37 (30%)	10/33 (30%)	12/40 (30%)	17/41 (42%)
FIRST INCIDENCE	320	3	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.277	P=0.337	P=0.559N	P=0.267
POLY 1.5	P=0.265	P=0.332	P=0.567N	P=0.256
POLY 6	P=0.282	P=0.337	P=0.560N	P=0.272
COCH-ARM / FISHERS	P=0.177	P=0.387	P=0.547	P=0.189
MAX-ISO-POLY-3	P=0.333	P=0.261	P=0.464N	P=0.209

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Stomach, Forestomach Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/49 (0%)	1/48 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	0/39.89	1/45.50	0/47.91
POLY-3 PERCENT (g)	0%	0%	2.2%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/39 (0%)	0/41 (0%)
FIRST INCIDENCE	---	---	617	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.739	(e)	P=0.511	(e)
POLY 1.5	P=0.733	(e)	P=0.508	(e)
POLY 6	P=0.743	(e)	P=0.512	(e)
COCH-ARM / FISHERS	P=0.694	(e)	P=0.490	(e)
MAX-ISO-POLY-3	P=0.417	(e)	P=0.174	(e)

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Stomach, Forestomach: Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/49 (0%)	1/48 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/43.08	0/39.89	1/45.50	2/48.28
POLY-3 PERCENT (g)	0%	0%	2.2%	4.1%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/39 (0%)	0/41 (0%)
FIRST INCIDENCE	---	---	617	668
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.090	(e)	P=0.511	P=0.264
POLY 1.5	P=0.087	(e)	P=0.508	P=0.259
POLY 6	P=0.093	(e)	P=0.512	P=0.267
COCH-ARM / FISHERS	P=0.072	(e)	P=0.490	P=0.247
MAX-ISO-POLY-3	P=0.114	(e)	P=0.174	P=0.101

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Stomach, Glandular Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/48 (4%)	1/49 (2%)	2/47 (4%)	2/48 (4%)
POLY-3 RATE (b)	2/42.10	1/39.89	2/44.82	2/46.06
POLY-3 PERCENT (g)	4.8%	2.5%	4.5%	4.3%
TERMINAL (d)	2/37 (5%)	1/33 (3%)	2/39 (5%)	2/41 (5%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.579	P=0.519N	P=0.671N	P=0.661N
POLY 1.5	P=0.572	P=0.519N	P=0.675N	P=0.667N
POLY 6	P=0.585	P=0.522N	P=0.671N	P=0.658N
COCH-ARM / FISHERS	P=0.522	P=0.492N	P=0.684	P=0.692N
MAX-ISO-POLY-3	P=0.645N	P=0.302N	P=0.474N	P=0.464N

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
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 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Stomach, Glandular Erosion</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/48 (0%)	0/49 (0%)	0/47 (0%)	0/48 (0%)
POLY-3 RATE (b)	0/42.10	0/39.89	0/44.82	0/46.06
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/39 (0%)	0/41 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
Thymus Atrophy				
<b>LESION RATES</b>				
OVERALL (a)	4/46 (9%)	8/45 (18%)	5/46 (11%)	6/48 (13%)
POLY-3 RATE (b)	4/40.50	8/43.19	5/43.49	6/47.39
POLY-3 PERCENT (g)	9.9%	18.5%	11.5%	12.7%
TERMINAL (d)	1/35 (3%)	2/32 (6%)	1/36 (3%)	2/41 (5%)
FIRST INCIDENCE	628	3	646	543
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.541N	P=0.208	P=0.545	P=0.471
POLY 1.5	P=0.555N	P=0.205	P=0.544	P=0.460
POLY 6	P=0.535N	P=0.202	P=0.535	P=0.475
COCH-ARM / FISHERS	P=0.494	P=0.166	P=0.500	P=0.398
MAX-ISO-POLY-3	P=0.467	P=0.139	P=0.407	P=0.351

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Thymus Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/46 (0%)	1/45 (2%)	0/46 (0%)	0/48 (0%)
POLY-3 RATE (b)	0/39.80	1/37.56	0/42.74	0/46.48
POLY-3 PERCENT (g)	0%	2.7%	0%	0%
TERMINAL (d)	0/35 (0%)	1/32 (3%)	0/36 (0%)	0/41 (0%)
FIRST INCIDENCE	---	729 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.556N	P=0.488	(e)	(e)
POLY 1.5	P=0.557N	P=0.487	(e)	(e)
POLY 6	P=0.557N	P=0.487	(e)	(e)
COCH-ARM / FISHERS	P=0.559N	P=0.495	(e)	(e)
MAX-ISO-POLY-3	P=0.376N	P=0.157	(e)	(e)

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

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010  
 Time Report Requested: 12:54:20  
 First Dose M/F: 06/30/03 / 06/30/03  
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Thymus</b>				
<b>Hyperplasia Lymphoid</b>				
<b>LESION RATES</b>				
OVERALL (a)	6/46 (13%)	1/45 (2%)	2/46 (4%)	4/48 (8%)
POLY-3 RATE (b)	6/40.29	1/37.56	2/42.74	4/46.48
POLY-3 PERCENT (g)	14.9%	2.7%	4.7%	8.6%
TERMINAL (d)	5/35 (14%)	1/32 (3%)	2/36 (6%)	4/41 (10%)
FIRST INCIDENCE	580	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.361N	P=0.066N	P=0.113N	P=0.283N
POLY 1.5	P=0.365N	P=0.067N	P=0.112N	P=0.291N
POLY 6	P=0.356N	P=0.069N	P=0.120N	P=0.283N
COCH-ARM / FISHERS	P=0.415N	P=0.059N	P=0.133N	P=0.343N
MAX-ISO-POLY-3	P=0.094N	P=0.032N*	P=0.062N	P=0.196N



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

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Thymus</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/46 (0%)	3/45 (7%)	0/46 (0%)	0/48 (0%)
POLY-3 RATE (b)	0/39.80	3/40.56	0/42.74	0/46.48
POLY-3 PERCENT (g)	0%	7.4%	0%	0%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/36 (0%)	0/41 (0%)
FIRST INCIDENCE	---	3	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.265N	P=0.121	(e)	(e)
POLY 1.5	P=0.270N	P=0.120	(e)	(e)
POLY 6	P=0.265N	P=0.120	(e)	(e)
COCH-ARM / FISHERS	P=0.301N	P=0.117	(e)	(e)
MAX-ISO-POLY-3	P=0.168N	P=0.041*	(e)	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Thyroid Gland: Follicle Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	2/48 (4%)	0/48 (0%)	0/49 (0%)
POLY-3 RATE (b)	1/43.08	2/39.89	0/45.11	0/46.98
POLY-3 PERCENT (g)	2.3%	5%	0%	0%
TERMINAL (d)	1/37 (3%)	2/33 (6%)	0/39 (0%)	0/41 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.178N	P=0.473	P=0.491N	P=0.483N
POLY 1.5	P=0.181N	P=0.472	P=0.493N	P=0.486N
POLY 6	P=0.178N	P=0.470	P=0.491N	P=0.481N
COCH-ARM / FISHERS	P=0.191N	P=0.485	P=0.510N	P=0.505N
MAX-ISO-POLY-3	P=0.162N	P=0.263	P=0.161N	P=0.160N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Thyroid Gland: Follicle Degeneration Focal</b>				
<b>LESION RATES</b>				
OVERALL (a)	28/50 (56%)	15/48 (31%)	28/48 (58%)	23/49 (47%)
POLY-3 RATE (b)	28/43.59	15/40.12	28/46.13	23/47.17
POLY-3 PERCENT (g)	64.2%	37.4%	60.7%	48.8%
TERMINAL (d)	26/37 (70%)	14/33 (42%)	24/39 (62%)	21/41 (51%)
FIRST INCIDENCE	628	669	609	691
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.244N	P=0.010N**	P=0.449N	P=0.098N
POLY 1.5	P=0.275N	P=0.011N*	P=0.485N	P=0.117N
POLY 6	P=0.224N	P=0.010N**	P=0.436N	P=0.090N
COCH-ARM / FISHERS	P=0.504N	P=0.011N*	P=0.488	P=0.242N
MAX-ISO-POLY-3	P=0.114N	P=0.007N**	P=0.367N	P=0.074N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Thyroid Gland: Follicular Cell Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/48 (0%)	0/48 (0%)	3/49 (6%)
POLY-3 RATE (b)	0/43.08	0/39.89	0/45.11	3/46.98
POLY-3 PERCENT (g)	0%	0%	0%	6.4%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/39 (0%)	3/41 (7%)
FIRST INCIDENCE	---	---	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.013*	(e)	(e)	P=0.135
POLY 1.5	P=0.013*	(e)	(e)	P=0.132
POLY 6	P=0.014*	(e)	(e)	P=0.137
COCH-ARM / FISHERS	P=0.012*	(e)	(e)	P=0.117
MAX-ISO-POLY-3	P=0.018*	(e)	(e)	P=0.053

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Urinary Bladder</b>				
<b>Infiltration Cellular Lymphocyte</b>				
<b>LESION RATES</b>				
<b>OVERALL (a)</b>	2/50 (4%)	1/49 (2%)	2/49 (4%)	4/50 (8%)
<b>POLY-3 RATE (b)</b>	2/43.08	1/39.89	2/46.11	4/47.91
<b>POLY-3 PERCENT (g)</b>	4.6%	2.5%	4.3%	8.4%
<b>TERMINAL (d)</b>	2/37 (5%)	1/33 (3%)	2/40 (5%)	4/41 (10%)
<b>FIRST INCIDENCE</b>	729 (T)	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P=0.209	P=0.527N	P=0.669N	P=0.388
<b>POLY 1.5</b>	P=0.204	P=0.528N	P=0.673N	P=0.379
<b>POLY 6</b>	P=0.213	P=0.530N	P=0.670N	P=0.391
<b>COCH-ARM / FISHERS</b>	P=0.166	P=0.508N	P=0.684	P=0.339
<b>MAX-ISO-POLY-3</b>	P=0.265	P=0.308N	P=0.472N	P=0.252

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Uterus</b>				
<b>Angiectasis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/49 (2%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	1/43.08	1/40.09	2/46.86	4/48.13
POLY-3 PERCENT (g)	2.3%	2.5%	4.3%	8.3%
TERMINAL (d)	1/37 (3%)	0/33 (0%)	1/40 (3%)	2/41 (5%)
FIRST INCIDENCE	729 (T)	677	698	691
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.098	P=0.745	P=0.529	P=0.215
POLY 1.5	P=0.094	P=0.743	P=0.526	P=0.208
POLY 6	P=0.101	P=0.744	P=0.528	P=0.219
COCH-ARM / FISHERS	P=0.073	P=0.747	P=0.500	P=0.181
MAX-ISO-POLY-3	P=0.150	P=0.479	P=0.313	P=0.118

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Uterus: Endometrium Hyperplasia Cystic</b>				
<b>LESION RATES</b>				
OVERALL (a)	39/50 (78%)	26/49 (53%)	34/50 (68%)	35/50 (70%)
POLY-3 RATE (b)	39/45.92	26/40.67	34/48.21	35/48.86
POLY-3 PERCENT (g)	84.9%	63.9%	70.5%	71.6%
TERMINAL (d)	33/37 (89%)	23/33 (70%)	29/40 (73%)	31/41 (76%)
FIRST INCIDENCE	296	585	609	579
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.186N	P=0.017N*	P=0.069N	P=0.088N
POLY 1.5	P=0.214N	P=0.018N*	P=0.078N	P=0.105N
POLY 6	P=0.163N	P=0.019N*	P=0.067N	P=0.078N
COCH-ARM / FISHERS	P=0.500N	P=0.008N**	P=0.184N	P=0.247N
MAX-ISO-POLY-3	P=0.059N	P=0.012N*	P=0.045N*	P=0.059N

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**LEGEND**

- (a) Number of tumor-bearing animals/number of animals examined at site.
  - (b) Number of tumor-bearing animals/Poly-3 number
  - (d) Observed incidence at terminal kill.
  - (e) Value of Statistic cannot be computed.
  - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
  - (g) Poly-3 adjusted lifetime tumor incidence.
  - (I) Interim sacrifice
  - (T) Terminal sacrifice
  - # Tumor rates based on numbers of animals necropsied.
  - \* To the right of any statistical result, indicates significance at ( $P \leq 0.05$ ).
  - \*\* To the right of any statistical result, indicates significance at ( $P \leq 0.01$ ).
  - N Indicates a negative trend for all tests
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

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