

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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
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

**C Number:** C99037B  
**Lock Date:** 11/20/2006  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:**  
Include 001 0 MG/KG  
Include 004 3 MG/KG  
Include 007 12 MG/KG  
**Study Gender:** Both  
**TDMSE Version:** 2.2.0

Include 002 0 MG/KG  
Include 005 6 MG/KG  
Include 008 12 MG/KG

Include 003 3 MG/KG  
Include 006 6 MG/KG

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## HISTORICAL CONTROL STUDIES From May 2009 report

### SAME ROUTE

- 99024-08 -- Androstenedione (GAVAGE METHYLCELLULOSE)
- 91005-08 -- Methylene blue trihydrate (GAVAGE METHYLCELLULOSE)

### ALL ROUTES

- 99024-08 -- Androstenedione (GAVAGE METHYLCELLULOSE)
- 99028-06 -- bis(2-Chloroethoxy)methane (SKIN ETHANOL)
- 20011-06 -- 1-Bromopropane (INHALATION AIR)
- 99027-04 -- Chromium picolinate monohydrate (ORAL FEED)
- 05174-06 -- Cresols (ORAL FEED)
- 96011-06 -- Cumene (INHALATION AIR)
- 97003-08 -- 1,2-Dibromo-2,4-dicyanobutane (SKIN ETHANOL)
- 99017-06 -- Diethylamine (INHALATION AIR)
- 93020-08 -- Diisopropylcarbodiimide (SKIN ETHANOL)
- 88123-07 -- Formamide (GAVAGE WATER)
- 20005-06 -- Ginseng (GAVAGE WATER)
- 99007-06 -- Goldenseal root powder (ORAL FEED)
- 95011-06 -- 5-(Hydroxymethyl)-2-furfural (GAVAGE WATER)
- 88105-04 -- Isoeugenol (GAVAGE CORN OIL)
- 20007-06 -- Kava kava extract (GAVAGE CORN OIL)
- 97006-02 -- Methyl isobutyl ketone (INHALATION AIR)
- 91005-08 -- Methylene blue trihydrate (GAVAGE METHYLCELLULOSE)
- 92013-06 -- 4-Methylimidazole (ORAL FEED)
- 88006-04 -- alpha-Methylstyrene (INHALATION AIR)
- 20008-04 -- Milk thistle extract (ORAL FEED)
- 99023-04 -- beta-Myrcene (GAVAGE CORN OIL)
- 97008-06 -- Propargyl alcohol (INHALATION AIR)
- 99020-06 -- Pulegone (GAVAGE CORN OIL)
- 20114-06 -- Sodium dichromate dihydrate (VI) (ORAL WATER)
- 88148-07 -- 3,3',4,4'-Tetrachloroazobenzene (GAVAGE CORN OIL)

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**HISTORICAL CONTROL STUDIES**  
**From May 2009 report**

93025-06 -- Tetralin (INHALATION AIR)  
96019-06 -- Water disinfection byproducts (Bromochloroacetic acid) (ORAL WATER)  
96017-06 -- Water disinfection byproducts (Dibromoacetic acid) (ORAL WATER)  
96015-06 -- Water disinfection byproducts (Dibromoacetonitrile) (ORAL WATER)

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**FOR ALL DOSES THE TUMOR RATES IN THE FOLLOWING TISSUES/ORGANS ARE BASED ON NUMBER OF TISSUES EXAMINED.  
IN OTHER TISSUES/ORGANS RATES ARE BASED ON THE NUMBER OF ANIMALS NECROPSIED.**

Adrenal Cortex  
Bone Marrow  
Islets, Pancreatic  
Liver  
Lung  
Ovary  
Pituitary Gland  
Spleen  
Thyroid Gland

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

### MALE MICE

#### Organ

Harderian Gland

Intestine Small: Site Unspecified

Liver

All Organs

### FEMALE MICE

#### Organ

Harderian Gland

Liver

All Organs

#### Morphology

Adenoma

Carcinoma or Adenoma

Carcinoma

Carcinoma or Adenoma

Hepatocellular Carcinoma

Hepatocellular Carcinoma or Hepatoblastoma

Malignant Tumors

#### Morphology

Adenoma

Carcinoma or Adenoma

Hepatocellular Adenoma

Hepatocellular Carcinoma

Hepatocellular Carcinoma or Hepatoblastoma

Hepatocellular Carcinoma or Hepatocellular Adenoma

Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma

Hemangiosarcoma or Hemangioma

Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/50 (4%)	4/50 (8%)	2/50 (4%)	5/50 (10%)
POLY-3 RATE (b)	2/45.42	4/47.21	2/48.22	5/44.19
POLY-3 PERCENT (g)	4.4%	8.5%	4.2%	11.3%
TERMINAL (d)	2/40 (5%)	3/42 (7%)	2/41 (5%)	3/37 (8%)
FIRST INCIDENCE	729 (T)	715	729 (T)	677
HC TUMORS SAME ROUTE	6/98 (6%)			
HC TUMORS ALL ROUTES	88/1391 (6%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.195	P=0.355	P=0.672N	P=0.205
POLY 1.5	P=0.197	P=0.344	P=0.680N	P=0.206
POLY 6	P=0.195	P=0.368	P=0.664N	P=0.205
COCH-ARM / FISHERS	P=0.205	P=0.339	P=0.691N	P=0.218
MAX-ISO-POLY-3	P=0.171	P=0.219	P=0.475N	P=0.114
HISTCONT SAME RTE	P=0.230	P=0.308	P=1.000	P=0.162
HISTCONT ALL RTEs	P=0.197	P=0.267	P=1.000	P=0.133

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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</b>				
<b>Mast Cell Tumor Malignant</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	2/47.36	0/48.22	0/43.84
POLY-3 PERCENT (g)	0%	4.2%	0%	0%
TERMINAL (d)	0/40 (0%)	1/42 (2%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	6/74	---	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	0/1392 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.399N	P=0.247	(e)	(e)
POLY 1.5	P=0.404N	P=0.241	(e)	(e)
POLY 6	P=0.394N	P=0.253	(e)	(e)
COCH-ARM / FISHERS	P=0.405N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.274N	P=0.085	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(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>Harderian Gland Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	8/50 (16%)	9/50 (18%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	8/45.42	9/47.15	4/48.37	1/43.84
POLY-3 PERCENT (g)	17.6%	19.1%	8.3%	2.3%
TERMINAL (d)	8/40 (20%)	9/42 (21%)	3/41 (7%)	1/37 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	691	729 (T)
HC TUMORS SAME ROUTE	15/100 (15%)			
HC TUMORS ALL ROUTES	182/1399 (13%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.006N**	P=0.534	P=0.148N	P=0.018N*
POLY 1.5	P=0.006N**	P=0.513	P=0.160N	P=0.018N*
POLY 6	P=0.006N**	P=0.557	P=0.136N	P=0.018N*
COCH-ARM / FISHERS	P=0.006N**	P=0.500	P=0.178N	P=0.015N*
MAX-ISO-POLY-3	P=0.009N**	P=0.427	P=0.094N	P=0.008N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)



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**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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 Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	2/50 (4%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	2/45.62	2/47.15	3/48.22	1/43.84
POLY-3 PERCENT (g)	4.4%	4.2%	6.2%	2.3%
TERMINAL (d)	1/40 (3%)	2/42 (5%)	3/41 (7%)	1/37 (3%)
FIRST INCIDENCE	677	729 (T)	729 (T)	729 (T)
HC TUMORS SAME ROUTE	5/100 (5%)			
HC TUMORS ALL ROUTES	45/1399 (3%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.425N	P=0.682N	P=0.525	P=0.514N
POLY 1.5	P=0.420N	P=0.689N	P=0.516	P=0.511N
POLY 6	P=0.432N	P=0.674N	P=0.534	P=0.517N
COCH-ARM / FISHERS	P=0.404N	P=0.691N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.443N	P=0.486N	P=0.350	P=0.296N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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 Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	10/50 (20%)	11/50 (22%)	7/50 (14%)	2/50 (4%)
POLY-3 RATE (b)	10/45.62	11/47.15	7/48.37	2/43.84
POLY-3 PERCENT (g)	21.9%	23.3%	14.5%	4.6%
TERMINAL (d)	9/40 (23%)	11/42 (26%)	6/41 (15%)	2/37 (5%)
FIRST INCIDENCE	677	729 (T)	691	729 (T)
HC TUMORS SAME ROUTE	20/100 (20%)			
HC TUMORS ALL ROUTES	221/1399 (16%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.007N**	P=0.534	P=0.252N	P=0.016N*
POLY 1.5	P=0.007N**	P=0.512	P=0.270N	P=0.016N*
POLY 6	P=0.008N**	P=0.557	P=0.236N	P=0.016N*
COCH-ARM / FISHERS	P=0.007N**	P=0.500	P=0.298N	P=0.014N*
MAX-ISO-POLY-3	P=0.011N*	P=0.435	P=0.182N	P=0.008N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Intestine Small: Jejunum Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/45.42	2/47.15	2/48.38	1/43.84
POLY-3 PERCENT (g)	0%	4.2%	4.1%	2.3%
TERMINAL (d)	0/40 (0%)	2/42 (5%)	1/41 (2%)	1/37 (3%)
FIRST INCIDENCE	---	729 (T)	688	729 (T)
HC TUMORS SAME ROUTE	1/100 (1%)			
HC TUMORS ALL ROUTES	17/1399 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.448	P=0.246	P=0.252	P=0.493
POLY 1.5	P=0.452	P=0.240	P=0.246	P=0.494
POLY 6	P=0.444	P=0.251	P=0.258	P=0.492
COCH-ARM / FISHERS	P=0.469	P=0.247	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.254	P=0.084	P=0.090	P=0.158
HISTCONT SAME RTE	P=0.337	P=0.118	P=0.126	P=0.223
HISTCONT ALL RTEs	P=0.284	P=0.096	P=0.103	P=0.188

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Intestine Small: Site Unspecified Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	0/45.42	2/47.15	4/48.38	2/43.84
POLY-3 PERCENT (g)	0%	4.2%	8.3%	4.6%
TERMINAL (d)	0/40 (0%)	2/42 (5%)	3/41 (7%)	2/37 (5%)
FIRST INCIDENCE	---	729 (T)	688	729 (T)
HC TUMORS SAME ROUTE	3/100 (3%)			
HC TUMORS ALL ROUTES	23/1399 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.209	P=0.246	P=0.069	P=0.229
POLY 1.5	P=0.214	P=0.240	P=0.066	P=0.231
POLY 6	P=0.203	P=0.251	P=0.073	P=0.228
COCH-ARM / FISHERS	P=0.232	P=0.247	P=0.059	P=0.247
MAX-ISO-POLY-3	P=0.113	P=0.084	P=0.026*	P=0.076
HISTCONT SAME RTE	P=0.153	P=0.118	P=0.034*	P=0.106
HISTCONT ALL RTEs	P=0.042*	P=0.096	P=0.027*	P=0.086

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DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Intestine Small: Site Unspecified Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	5/50 (10%)	3/50 (6%)
POLY-3 RATE (b)	0/45.42	2/47.15	5/48.38	3/43.84
POLY-3 PERCENT (g)	0%	4.2%	10.3%	6.8%
TERMINAL (d)	0/40 (0%)	2/42 (5%)	4/41 (10%)	3/37 (8%)
FIRST INCIDENCE	---	729 (T)	688	729 (T)
HC TUMORS SAME ROUTE	4/100 (4%)			
HC TUMORS ALL ROUTES	33/1399 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.097	P=0.246	P=0.036*	P=0.112
POLY 1.5	P=0.101	P=0.240	P=0.034*	P=0.113
POLY 6	P=0.093	P=0.251	P=0.039*	P=0.111
COCH-ARM / FISHERS	P=0.114	P=0.247	P=0.028*	P=0.121
MAX-ISO-POLY-3	P=0.061	P=0.084	P=0.014*	P=0.038*
HISTCONT SAME RTE	P=0.082	P=0.118	P=0.018*	P=0.051
HISTCONT ALL RTES	P=0.029*	P=0.096	P=0.014*	P=0.040*

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Intestine Small: Site Unspecified Leiomyosarcoma</b>				
<b>TUMOR 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)	---	---	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	0/1399 (0%)			
<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
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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 Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	4/50 (8%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	4/46.10	2/47.21	1/48.22	1/43.84
POLY-3 PERCENT (g)	8.7%	4.2%	2.1%	2.3%
TERMINAL (d)	3/40 (8%)	1/42 (2%)	1/41 (2%)	1/37 (3%)
FIRST INCIDENCE	498	715	729 (T)	729 (T)
HC TUMORS SAME ROUTE	2/100 (2%)			
HC TUMORS ALL ROUTES	16/1386 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.117N	P=0.326N	P=0.166N	P=0.194N
POLY 1.5	P=0.115N	P=0.335N	P=0.171N	P=0.191N
POLY 6	P=0.119N	P=0.317N	P=0.160N	P=0.197N
COCH-ARM / FISHERS	P=0.111N	P=0.339N	P=0.181N	P=0.181N
MAX-ISO-POLY-3	P=0.114N	P=0.195N	P=0.080N	P=0.098N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Hemangiosarcoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/50 (4%)	3/50 (6%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	2/45.42	3/47.15	2/48.22	1/43.84
POLY-3 PERCENT (g)	4.4%	6.4%	4.2%	2.3%
TERMINAL (d)	2/40 (5%)	3/42 (7%)	2/41 (5%)	1/37 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
HC TUMORS SAME ROUTE	5/100 (5%)			
HC TUMORS ALL ROUTES	40/1397 (3%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.326N	P=0.517	P=0.672N	P=0.512N
POLY 1.5	P=0.324N	P=0.506	P=0.680N	P=0.510N
POLY 6	P=0.328N	P=0.529	P=0.664N	P=0.514N
COCH-ARM / FISHERS	P=0.313N	P=0.500	P=0.691N	P=0.500N
MAX-ISO-POLY-3	P=0.394N	P=0.342	P=0.475N	P=0.294N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)



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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 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 PRIMARY TUMORS 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>Hepatoblastoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	3/50 (6%)	3/50 (6%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	3/45.42	3/47.40	1/48.34	2/43.84
POLY-3 PERCENT (g)	6.6%	6.3%	2.1%	4.6%
TERMINAL (d)	3/40 (8%)	2/42 (5%)	0/41 (0%)	2/37 (5%)
FIRST INCIDENCE	729 (T)	663	698	729 (T)
HC TUMORS SAME ROUTE	5/100 (5%)			
HC TUMORS ALL ROUTES	48/1397 (3%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.352N	P=0.642N	P=0.283N	P=0.516N
POLY 1.5	P=0.351N	P=0.654N	P=0.292N	P=0.514N
POLY 6	P=0.353N	P=0.629N	P=0.275N	P=0.519N
COCH-ARM / FISHERS	P=0.343N	P=0.661N	P=0.309N	P=0.500N
MAX-ISO-POLY-3	P=0.388N	P=0.478N	P=0.146N	P=0.340N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Hepatocellular Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	24/50 (48%)	23/50 (46%)	30/50 (60%)	28/50 (56%)
POLY-3 RATE (b)	24/46.49	23/47.82	30/49.07	28/45.42
POLY-3 PERCENT (g)	51.6%	48.1%	61.1%	61.7%
TERMINAL (d)	22/40 (55%)	21/42 (50%)	26/41 (63%)	24/37 (65%)
FIRST INCIDENCE	476	529	589	545
HC TUMORS SAME ROUTE	60/100 (60%)			
HC TUMORS ALL ROUTES	727/1397 (52%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.116	P=0.445N	P=0.230	P=0.220
POLY 1.5	P=0.124	P=0.483N	P=0.198	P=0.224
POLY 6	P=0.110	P=0.403N	P=0.270	P=0.221
COCH-ARM / FISHERS	P=0.163	P=0.500N	P=0.158	P=0.274
MAX-ISO-POLY-3	P=0.184	P=0.366N	P=0.178	P=0.165
HISTCONT SAME RTE	P=0.247	P=1.000	P=0.251	P=0.231
HISTCONT ALL RTEs	P=0.212	P=1.000	P=0.214	P=0.196

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Hepatocellular Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	16/50 (32%)	26/50 (52%)	23/50 (46%)	16/50 (32%)
POLY-3 RATE (b)	16/48.59	26/48.22	23/49.12	16/46.67
POLY-3 PERCENT (g)	32.9%	53.9%	46.8%	34.3%
TERMINAL (d)	9/40 (23%)	21/42 (50%)	18/41 (44%)	9/37 (24%)
FIRST INCIDENCE	476	654	664	518
HC TUMORS SAME ROUTE	39/100 (39%)			
HC TUMORS ALL ROUTES	414/1397 (30%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.388N	P=0.028*	P=0.115	P=0.530
POLY 1.5	P=0.374N	P=0.027*	P=0.113	P=0.540
POLY 6	P=0.403N	P=0.029*	P=0.114	P=0.521
COCH-ARM / FISHERS	P=0.322N	P=0.034*	P=0.109	P=0.585N
MAX-ISO-POLY-3	P=0.187	P=0.018*	P=0.080	P=0.444
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Hepatocellular Carcinoma or Hepatoblastoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	18/50 (36%)	27/50 (54%)	24/50 (48%)	18/50 (36%)
POLY-3 RATE (b)	18/48.59	27/48.22	24/49.24	18/46.67
POLY-3 PERCENT (g)	37%	56%	48.7%	38.6%
TERMINAL (d)	11/40 (28%)	22/42 (52%)	18/41 (44%)	11/37 (30%)
FIRST INCIDENCE	476	654	664	518
HC TUMORS SAME ROUTE	42/100 (42%)			
HC TUMORS ALL ROUTES	445/1397 (32%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.411N	P=0.046*	P=0.167	P=0.523
POLY 1.5	P=0.396N	P=0.044*	P=0.163	P=0.533
POLY 6	P=0.426N	P=0.048*	P=0.169	P=0.512
COCH-ARM / FISHERS	P=0.341N	P=0.054	P=0.156	P=0.582N
MAX-ISO-POLY-3	P=0.239	P=0.030*	P=0.123	P=0.439
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Hepatocellular Carcinoma or Hepatocellular Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	33/50 (66%)	37/50 (74%)	40/50 (80%)	35/50 (70%)
POLY-3 RATE (b)	33/48.59	37/48.84	40/49.87	35/47.17
POLY-3 PERCENT (g)	67.9%	75.8%	80.2%	74.2%
TERMINAL (d)	26/40 (65%)	31/42 (74%)	32/41 (78%)	27/37 (73%)
FIRST INCIDENCE	476	529	589	518
HC TUMORS SAME ROUTE	78/100 (78%)			
HC TUMORS ALL ROUTES	951/1397 (68%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.300	P=0.262	P=0.120	P=0.324
POLY 1.5	P=0.316	P=0.239	P=0.106	P=0.334
POLY 6	P=0.287	P=0.287	P=0.137	P=0.318
COCH-ARM / FISHERS	P=0.405	P=0.257	P=0.088	P=0.415
MAX-ISO-POLY-3	P=0.241	P=0.194	P=0.082	P=0.250
HISTCONT SAME RTE	P=0.320	P=0.274	P=0.115	P=0.350
HISTCONT ALL RTEs	P=0.279	P=0.235	P=0.093	P=0.309

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	33/50 (66%)	38/50 (76%)	40/50 (80%)	36/50 (72%)
POLY-3 RATE (b)	33/48.59	38/48.84	40/49.87	36/47.17
POLY-3 PERCENT (g)	67.9%	77.8%	80.2%	76.3%
TERMINAL (d)	26/40 (65%)	32/42 (76%)	32/41 (78%)	28/37 (76%)
FIRST INCIDENCE	476	529	589	518
HC TUMORS SAME ROUTE	79/100 (79%)			
HC TUMORS ALL ROUTES	962/1397 (69%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.240	P=0.190	P=0.120	P=0.243
POLY 1.5	P=0.256	P=0.172	P=0.106	P=0.253
POLY 6	P=0.228	P=0.211	P=0.137	P=0.236
COCH-ARM / FISHERS	P=0.342	P=0.189	P=0.088	P=0.333
MAX-ISO-POLY-3	P=0.194	P=0.135	P=0.082	P=0.180
HISTCONT SAME RTE	P=0.260	P=0.191	P=0.115	P=0.254
HISTCONT ALL RTES	P=0.223	P=0.159	P=0.093	P=0.217

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Mast Cell Tumor Malignant</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	2/47.36	0/48.22	0/43.84
POLY-3 PERCENT (g)	0%	4.2%	0%	0%
TERMINAL (d)	0/40 (0%)	1/42 (2%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	674	---	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	0/1397 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.399N	P=0.247	(e)	(e)
POLY 1.5	P=0.404N	P=0.241	(e)	(e)
POLY 6	P=0.394N	P=0.253	(e)	(e)
COCH-ARM / FISHERS	P=0.405N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.274N	P=0.085	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Alveolar/Bronchiolar Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	7/50 (14%)	5/50 (10%)	8/50 (16%)	6/50 (12%)
POLY-3 RATE (b)	7/45.42	5/47.43	8/48.22	6/45.71
POLY-3 PERCENT (g)	15.4%	10.5%	16.6%	13.1%
TERMINAL (d)	7/40 (18%)	4/42 (10%)	8/41 (20%)	3/37 (8%)
FIRST INCIDENCE	729 (T)	654	729 (T)	470
HC TUMORS SAME ROUTE	18/100 (18%)			
HC TUMORS ALL ROUTES	221/1399 (16%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.533N	P=0.349N	P=0.550	P=0.495N
POLY 1.5	P=0.535N	P=0.367N	P=0.530	P=0.504N
POLY 6	P=0.532N	P=0.328N	P=0.569	P=0.485N
COCH-ARM / FISHERS	P=0.528N	P=0.380N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.594N	P=0.248N	P=0.439	P=0.377N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)



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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Alveolar/Bronchiolar Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	6/50 (12%)	4/50 (8%)	9/50 (18%)	4/50 (8%)
POLY-3 RATE (b)	6/45.95	4/47.77	9/48.79	4/44.26
POLY-3 PERCENT (g)	13.1%	8.4%	18.5%	9%
TERMINAL (d)	5/40 (13%)	3/42 (7%)	7/41 (17%)	3/37 (8%)
FIRST INCIDENCE	568	529	589	608
HC TUMORS SAME ROUTE	12/100 (12%)			
HC TUMORS ALL ROUTES	158/1399 (11%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.468N	P=0.346N	P=0.332	P=0.393N
POLY 1.5	P=0.456N	P=0.360N	P=0.315	P=0.390N
POLY 6	P=0.479N	P=0.330N	P=0.350	P=0.396N
COCH-ARM / FISHERS	P=0.426N	P=0.370N	P=0.288	P=0.370N
MAX-ISO-POLY-3	P=0.442N	P=0.237N	P=0.244	P=0.277N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	13/50 (26%)	9/50 (18%)	16/50 (32%)	10/50 (20%)
POLY-3 RATE (b)	13/45.95	9/48.05	16/48.79	10/46.13
POLY-3 PERCENT (g)	28.3%	18.7%	32.8%	21.7%
TERMINAL (d)	12/40 (30%)	7/42 (17%)	14/41 (34%)	6/37 (16%)
FIRST INCIDENCE	568	529	589	470
HC TUMORS SAME ROUTE	28/100 (28%)			
HC TUMORS ALL ROUTES	363/1399 (26%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.422N	P=0.197N	P=0.401	P=0.311N
POLY 1.5	P=0.424N	P=0.219N	P=0.373	P=0.322N
POLY 6	P=0.420N	P=0.175N	P=0.431	P=0.298N
COCH-ARM / FISHERS	P=0.411N	P=0.235N	P=0.330	P=0.318N
MAX-ISO-POLY-3	P=0.381N	P=0.142N	P=0.322	P=0.233N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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 or Unspecified Site Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/48 (0%)	1/50 (2%)	0/48 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/43.42	1/47.15	0/46.22	0/42.84
POLY-3 PERCENT (g)	0%	2.1%	0%	0%
TERMINAL (d)	0/38 (0%)	1/42 (2%)	0/39 (0%)	0/36 (0%)
FIRST INCIDENCE	---	729 (T)	---	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	6/1370 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.558N	P=0.516	(e)	(e)
POLY 1.5	P=0.563N	P=0.511	(e)	(e)
POLY 6	P=0.553N	P=0.522	(e)	(e)
COCH-ARM / FISHERS	P=0.566N	P=0.510	(e)	(e)
MAX-ISO-POLY-3	P=0.407N	P=0.176	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Skeletal Muscle</b>				
<b>Hemangiosarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/45.42	0/47.15	1/48.22	0/43.84
POLY-3 PERCENT (g)	4.4%	0%	2.1%	0%
TERMINAL (d)	2/40 (5%)	0/42 (0%)	1/41 (2%)	0/37 (0%)
FIRST INCIDENCE	729 (T)	---	729 (T)	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	3/1399 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.195N	P=0.229N	P=0.479N	P=0.245N
POLY 1.5	P=0.192N	P=0.234N	P=0.487N	P=0.244N
POLY 6	P=0.198N	P=0.223N	P=0.471N	P=0.246N
COCH-ARM / FISHERS	P=0.188N	P=0.247N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.087N	P=0.076N	P=0.269N	P=0.083N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Skeletal Muscle</b>				
<b>Sarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.42	1/47.43	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	---	654	---	---
HC TUMORS SAME ROUTE	1/100 (1%)			
HC TUMORS ALL ROUTES	2/1399 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.559N	P=0.509	(e)	(e)
POLY 1.5	P=0.563N	P=0.503	(e)	(e)
POLY 6	P=0.554N	P=0.515	(e)	(e)
COCH-ARM / FISHERS	P=0.567N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.406N	P=0.169	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.42	0/47.15	0/48.22	1/44.48
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	---	---	518
HC TUMORS SAME ROUTE	2/100 (2%)			
HC TUMORS ALL ROUTES	18/1399 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.194	(e)	(e)	P=0.496
POLY 1.5	P=0.195	(e)	(e)	P=0.496
POLY 6	P=0.193	(e)	(e)	P=0.496
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.124	(e)	(e)	P=0.158
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 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 PRIMARY TUMORS 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>Fibrosarcoma</b>				
<b>TUMOR 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	---	---	---	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	2/1399 (0%)			
<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)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>				
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma				
<b>TUMOR 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	---	---	---	---
HC TUMORS SAME ROUTE	2/100 (2%)			
HC TUMORS ALL ROUTES	14/1399 (1%)			
<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)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)



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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Hemangiosarcoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	3/50 (6%)	0/49 (0%)
POLY-3 RATE (b)	1/45.42	0/47.15	3/48.22	0/43.27
POLY-3 PERCENT (g)	2.2%	0%	6.2%	0%
TERMINAL (d)	1/40 (3%)	0/42 (0%)	3/41 (7%)	0/37 (0%)
FIRST INCIDENCE	729 (T)	---	729 (T)	---
HC TUMORS SAME ROUTE	3/99 (3%)			
HC TUMORS ALL ROUTES	36/1388 (3%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.528N	P=0.493N	P=0.327	P=0.510N
POLY 1.5	P=0.522N	P=0.497N	P=0.319	P=0.509N
POLY 6	P=0.534N	P=0.487N	P=0.336	P=0.510N
COCH-ARM / FISHERS	P=0.506N	P=0.500N	P=0.309	P=0.505N
MAX-ISO-POLY-3	P=0.301N	P=0.159N	P=0.177	P=0.169N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Mast Cell Tumor Malignant</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/45.42	2/47.36	0/48.22	0/43.27
POLY-3 PERCENT (g)	0%	4.2%	0%	0%
TERMINAL (d)	0/40 (0%)	1/42 (2%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	---	674	---	---
HC TUMORS SAME ROUTE	0/99 (0%)			
HC TUMORS ALL ROUTES	0/1388 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.402N	P=0.247	(e)	(e)
POLY 1.5	P=0.407N	P=0.241	(e)	(e)
POLY 6	P=0.396N	P=0.253	(e)	(e)
COCH-ARM / FISHERS	P=0.409N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.276N	P=0.085	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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 Squamous Cell Carcinoma or Papilloma Squamous</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/45.42	0/47.15	1/48.22	2/43.92
POLY-3 PERCENT (g)	0%	0%	2.1%	4.6%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	1/41 (2%)	1/37 (3%)
FIRST INCIDENCE	---	---	729 (T)	709
HC TUMORS SAME ROUTE	2/100 (2%)			
HC TUMORS ALL ROUTES	26/1399 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.065	(e)	P=0.512	P=0.230
POLY 1.5	P=0.066	(e)	P=0.507	P=0.231
POLY 6	P=0.063	(e)	P=0.516	P=0.229
COCH-ARM / FISHERS	P=0.070	(e)	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.077	(e)	P=0.173	P=0.076
HISTCONT SAME RTE	P=0.104	(e)	P=0.244	P=0.106
HISTCONT ALL RTEs	P=0.087	(e)	P=0.207	P=0.086

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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 Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/49 (4%)	0/50 (0%)	0/50 (0%)	1/49 (2%)
POLY-3 RATE (b)	2/44.42	0/47.15	0/48.22	1/42.84
POLY-3 PERCENT (g)	4.5%	0%	0%	2.3%
TERMINAL (d)	2/39 (5%)	0/42 (0%)	0/41 (0%)	1/36 (3%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)
HC TUMORS SAME ROUTE	3/100 (3%)			
HC TUMORS ALL ROUTES	22/1392 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.461N	P=0.224N	P=0.219N	P=0.513N
POLY 1.5	P=0.460N	P=0.229N	P=0.225N	P=0.511N
POLY 6	P=0.463N	P=0.218N	P=0.214N	P=0.515N
COCH-ARM / FISHERS	P=0.462N	P=0.242N	P=0.242N	P=0.500N
MAX-ISO-POLY-3	P=0.142N	P=0.075N	P=0.075N	P=0.294N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>All Organs</b>				
<b>Hemangioma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.42	0/47.15	0/48.22	1/43.84
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/40 (0%)	0/42 (0%)	0/41 (0%)	1/37 (3%)
FIRST INCIDENCE	---	---	---	729 (T)
HC TUMORS SAME ROUTE	1/100 (1%)			
HC TUMORS ALL ROUTES	16/1399 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.192	(e)	(e)	P=0.493
POLY 1.5	P=0.194	(e)	(e)	P=0.494
POLY 6	P=0.190	(e)	(e)	P=0.492
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.124	(e)	(e)	P=0.158
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>All Organs</b>				
<b>Hemangiosarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
<b>OVERALL (a)</b>	4/50 (8%)	7/50 (14%)	4/50 (8%)	2/50 (4%)
<b>POLY-3 RATE (b)</b>	4/45.42	7/47.45	4/48.22	2/43.99
<b>POLY-3 PERCENT (g)</b>	8.8%	14.8%	8.3%	4.6%
<b>TERMINAL (d)</b>	4/40 (10%)	5/42 (12%)	4/41 (10%)	1/37 (3%)
<b>FIRST INCIDENCE</b>	729 (T)	663	729 (T)	691
<b>HC TUMORS SAME ROUTE</b>	11/100 (11%)			
<b>HC TUMORS ALL ROUTES</b>	95/1399 (7%)			
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P=0.174N	P=0.287	P=0.610N	P=0.352N
<b>POLY 1.5</b>	P=0.173N	P=0.272	P=0.623N	P=0.350N
<b>POLY 6</b>	P=0.176N	P=0.305	P=0.597N	P=0.353N
<b>COCH-ARM / FISHERS</b>	P=0.162N	P=0.262	P=0.643N	P=0.339N
<b>MAX-ISO-POLY-3</b>	P=0.199N	P=0.194	P=0.465N	P=0.216N
<b>HISTCONT SAME RTE</b>	(h)	(h)	(h)	(h)
<b>HISTCONT ALL RTEs</b>	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>All Organs</b>				
<b>Hemangiosarcoma or Hemangioma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	4/50 (8%)	7/50 (14%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	4/45.42	7/47.45	4/48.22	3/43.99
POLY-3 PERCENT (g)	8.8%	14.8%	8.3%	6.8%
TERMINAL (d)	4/40 (10%)	5/42 (12%)	4/41 (10%)	2/37 (5%)
FIRST INCIDENCE	729 (T)	663	729 (T)	691
HC TUMORS SAME ROUTE	11/100 (11%)			
HC TUMORS ALL ROUTES	109/1399 (8%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.297N	P=0.287	P=0.610N	P=0.517N
POLY 1.5	P=0.294N	P=0.272	P=0.623N	P=0.515N
POLY 6	P=0.298N	P=0.305	P=0.597N	P=0.519N
COCH-ARM / FISHERS	P=0.279N	P=0.262	P=0.643N	P=0.500N
MAX-ISO-POLY-3	P=0.356N	P=0.194	P=0.465N	P=0.365N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>All Organs</b>				
<b>Histiocytic Sarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.42	1/47.15	0/48.22	0/43.84
POLY-3 PERCENT (g)	2.2%	2.1%	0%	0%
TERMINAL (d)	1/40 (3%)	1/42 (2%)	0/41 (0%)	0/37 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	---	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	6/1399 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.234N	P=0.752N	P=0.488N	P=0.507N
POLY 1.5	P=0.235N	P=0.757N	P=0.493N	P=0.506N
POLY 6	P=0.233N	P=0.746N	P=0.484N	P=0.508N
COCH-ARM / FISHERS	P=0.236N	P=0.753N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.269N	P=0.489N	P=0.158N	P=0.167N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)



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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>All Organs</b>				
<b>Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	4/50 (8%)	2/50 (4%)	7/50 (14%)	1/50 (2%)
POLY-3 RATE (b)	4/46.10	2/47.82	7/48.47	1/43.84
POLY-3 PERCENT (g)	8.7%	4.2%	14.4%	2.3%
TERMINAL (d)	3/40 (8%)	0/42 (0%)	5/41 (12%)	1/37 (3%)
FIRST INCIDENCE	498	529	696	729 (T)
HC TUMORS SAME ROUTE	6/100 (6%)			
HC TUMORS ALL ROUTES	48/1399 (3%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.295N	P=0.321N	P=0.291	P=0.194N
POLY 1.5	P=0.282N	P=0.331N	P=0.279	P=0.191N
POLY 6	P=0.309N	P=0.309N	P=0.304	P=0.197N
COCH-ARM / FISHERS	P=0.256N	P=0.339N	P=0.262	P=0.181N
MAX-ISO-POLY-3	P=0.187N	P=0.192N	P=0.198	P=0.098N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>All Organs</b>				
<b>Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	32/50 (64%)	32/50 (64%)	36/50 (72%)	35/50 (70%)
POLY-3 RATE (b)	32/47.17	32/48.10	36/49.22	35/47.90
POLY-3 PERCENT (g)	67.8%	66.5%	73.1%	73.1%
TERMINAL (d)	29/40 (73%)	29/42 (69%)	31/41 (76%)	26/37 (70%)
FIRST INCIDENCE	476	529	589	456
HC TUMORS SAME ROUTE	75/100 (75%)			
HC TUMORS ALL ROUTES	943/1399 (67%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.267	P=0.533N	P=0.362	P=0.366
POLY 1.5	P=0.242	P=0.578N	P=0.316	P=0.328
POLY 6	P=0.305	P=0.475N	P=0.424	P=0.424
COCH-ARM / FISHERS	P=0.245	P=0.582N	P=0.260	P=0.335
MAX-ISO-POLY-3	P=0.424	P=0.444N	P=0.285	P=0.286
HISTCONT SAME RTE	P=0.544	P=1.000	P=0.396	P=0.398
HISTCONT ALL RTEs	P=0.494	P=1.000	P=0.355	P=0.356

TDMS No. 99037 - 06  
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 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>All Organs</b>				
<b>Malignant Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	30/50 (60%)	33/50 (66%)	38/50 (76%)	27/50 (54%)
POLY-3 RATE (b)	30/50.00	33/48.84	38/50.00	27/48.30
POLY-3 PERCENT (g)	60%	67.6%	76%	55.9%
TERMINAL (d)	20/40 (50%)	27/42 (64%)	29/41 (71%)	17/37 (46%)
FIRST INCIDENCE	476	529	589	456
HC TUMORS SAME ROUTE	63/100 (63%)			
HC TUMORS ALL ROUTES	748/1399 (54%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.348N	P=0.284	P=0.066	P=0.418N
POLY 1.5	P=0.332N	P=0.288	P=0.066	P=0.405N
POLY 6	P=0.370N	P=0.278	P=0.066	P=0.437N
COCH-ARM / FISHERS	P=0.275N	P=0.339	P=0.066	P=0.343N
MAX-ISO-POLY-3	P=0.175N	P=0.221	P=0.042*	P=0.343N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99037 - 06  
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 alpha/beta Thujone mixture  
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 Lab: SRI

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>All Organs</b>				
<b>Malignant and Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	45/50 (90%)	45/50 (90%)	46/50 (92%)	42/50 (84%)
POLY-3 RATE (b)	45/50.00	45/48.84	46/50.00	42/49.00
POLY-3 PERCENT (g)	90%	92.1%	92%	85.7%
TERMINAL (d)	35/40 (88%)	39/42 (93%)	37/41 (90%)	30/37 (81%)
FIRST INCIDENCE	476	529	589	456
HC TUMORS SAME ROUTE	93/100 (93%)			
HC TUMORS ALL ROUTES	1217/1399 (87%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.250N	P=0.492	P=0.500	P=0.366N
POLY 1.5	P=0.253N	P=0.502	P=0.500	P=0.366N
POLY 6	P=0.245N	P=0.474	P=0.500	P=0.366N
COCH-ARM / FISHERS	P=0.200N	P=0.630N	P=0.500	P=0.277N
MAX-ISO-POLY-3	P=0.286N	P=0.355	P=0.364	P=0.261N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99037 - 06  
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**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	0/49 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.08	0/39.89	0/46.11	0/47.91
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	1/37 (3%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	4/1442 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.307N	P=0.515N	P=0.486N	P=0.479N
POLY 1.5	P=0.305N	P=0.516N	P=0.488N	P=0.482N
POLY 6	P=0.307N	P=0.517N	P=0.487N	P=0.477N
COCH-ARM / FISHERS	P=0.306N	P=0.505N	P=0.505N	P=0.500N
MAX-ISO-POLY-3	P=0.125N	P=0.176N	P=0.160N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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</b>				
<b>Mast Cell Tumor Malignant</b>				
<b>TUMOR RATES</b>				
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	---	---	---	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	0/1443 (0%)			
<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)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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 Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	5/50 (10%)	1/49 (2%)	5/50 (10%)	9/50 (18%)
POLY-3 RATE (b)	5/43.08	1/39.89	5/47.22	9/48.44
POLY-3 PERCENT (g)	11.6%	2.5%	10.6%	18.6%
TERMINAL (d)	5/37 (14%)	1/33 (3%)	3/40 (8%)	7/41 (17%)
FIRST INCIDENCE	729 (T)	729 (T)	638	647
HC TUMORS SAME ROUTE	13/100 (13%)			
HC TUMORS ALL ROUTES	160/1448 (11%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.067	P=0.119N	P=0.572N	P=0.264
POLY 1.5	P=0.063	P=0.121N	P=0.579N	P=0.250
POLY 6	P=0.072	P=0.121N	P=0.571N	P=0.275
COCH-ARM / FISHERS	P=0.041*	P=0.107N	P=0.630N	P=0.194
MAX-ISO-POLY-3	P=0.077	P=0.060N	P=0.440N	P=0.192
HISTCONT SAME RTE	P=0.104	P=1.000	P=1.000	P=0.271
HISTCONT ALL RTEs	P=0.087	P=1.000	P=1.000	P=0.232

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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 Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	2/49 (4%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	1/43.08	2/40.12	4/46.86	3/47.91
POLY-3 PERCENT (g)	2.3%	5%	8.5%	6.3%
TERMINAL (d)	1/37 (3%)	1/33 (3%)	3/40 (8%)	3/41 (7%)
FIRST INCIDENCE	729 (T)	669	698	729 (T)
HC TUMORS SAME ROUTE	1/100 (1%)			
HC TUMORS ALL ROUTES	36/1448 (3%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.291	P=0.475	P=0.205	P=0.345
POLY 1.5	P=0.281	P=0.473	P=0.203	P=0.338
POLY 6	P=0.296	P=0.474	P=0.204	P=0.348
COCH-ARM / FISHERS	P=0.224	P=0.492	P=0.181	P=0.309
MAX-ISO-POLY-3	P=0.257	P=0.266	P=0.109	P=0.194
HISTCONT SAME RTE	P=0.143	P=0.143	P=0.098	P=0.101
HISTCONT ALL RTEs	P=0.040*	P=0.330	P=0.064	P=0.182



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**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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 Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	6/50 (12%)	3/49 (6%)	9/50 (18%)	12/50 (24%)
POLY-3 RATE (b)	6/43.08	3/40.12	9/47.34	12/48.44
POLY-3 PERCENT (g)	13.9%	7.5%	19%	24.8%
TERMINAL (d)	6/37 (16%)	2/33 (6%)	6/40 (15%)	10/41 (24%)
FIRST INCIDENCE	729 (T)	669	638	647
HC TUMORS SAME ROUTE	14/100 (14%)			
HC TUMORS ALL ROUTES	195/1448 (14%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.041*	P=0.277N	P=0.358	P=0.150
POLY 1.5	P=0.037*	P=0.282N	P=0.348	P=0.138
POLY 6	P=0.045*	P=0.279N	P=0.361	P=0.158
COCH-ARM / FISHERS	P=0.020*	P=0.254N	P=0.288	P=0.096
MAX-ISO-POLY-3	P=0.063	P=0.180N	P=0.269	P=0.109
HISTCONT SAME RTE	P=0.084	P=1.000	P=0.376	P=0.153
HISTCONT ALL RTEs	P=0.071	P=1.000	P=0.334	P=0.126

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

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 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Intestine Small: Jejunum Carcinoma</b>				
<b>TUMOR 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	---	---	---	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	4/1448 (0%)			
<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)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 99037 - 06  
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 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Intestine Small: Site Unspecified Carcinoma</b>				
<b>TUMOR 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	---	---	---	---
HC TUMORS SAME ROUTE	1/100 (1%)			
HC TUMORS ALL ROUTES	5/1448 (0%)			
<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)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Intestine Small: Site Unspecified Carcinoma or Adenoma</b>				
<b>TUMOR 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)
HC TUMORS SAME ROUTE	1/100 (1%)			
HC TUMORS ALL ROUTES	10/1448 (1%)			
<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
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Intestine Small: Site Unspecified Leiomyosarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	2/49 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.08	2/40.58	0/46.74	1/48.05
POLY-3 PERCENT (g)	0%	4.9%	0%	2.1%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	585	---	694
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	2/1448 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.576	P=0.224	(e)	P=0.522
POLY 1.5	P=0.568	P=0.221	(e)	P=0.518
POLY 6	P=0.579	P=0.224	(e)	P=0.524
COCH-ARM / FISHERS	P=0.541	P=0.242	(e)	P=0.500
MAX-ISO-POLY-3	P=0.350	P=0.074	(e)	P=0.185
HISTCONT SAME RTE	P=0.416	P=0.104	(e)	P=0.104
HISTCONT ALL RTEs	P=0.057	P<0.001**	(e)	P=0.014*

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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 Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/48 (2%)	1/49 (2%)	0/48 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/42.10	1/39.89	0/45.39	0/47.91
POLY-3 PERCENT (g)	2.4%	2.5%	0%	0%
TERMINAL (d)	1/37 (3%)	1/33 (3%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	---	---
HC TUMORS SAME ROUTE	1/95 (1%)			
HC TUMORS ALL ROUTES	12/1430 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.225N	P=0.749	P=0.485N	P=0.474N
POLY 1.5	P=0.226N	P=0.748	P=0.487N	P=0.477N
POLY 6	P=0.225N	P=0.747	P=0.485N	P=0.473N
COCH-ARM / FISHERS	P=0.231N	P=0.747N	P=0.500N	P=0.490N
MAX-ISO-POLY-3	P=0.242N	P=0.484	P=0.158N	P=0.156N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Hemangiosarcoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	0/49 (0%)	1/49 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/43.14	0/39.89	1/46.53	0/47.91
POLY-3 PERCENT (g)	2.3%	0%	2.2%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	715	---	609	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	14/1445 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.378N	P=0.516N	P=0.743N	P=0.479N
POLY 1.5	P=0.380N	P=0.516N	P=0.746N	P=0.483N
POLY 6	P=0.375N	P=0.517N	P=0.743N	P=0.478N
COCH-ARM / FISHERS	P=0.405N	P=0.505N	P=0.747	P=0.500N
MAX-ISO-POLY-3	P=0.257N	P=0.177N	P=0.478N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 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 PRIMARY TUMORS 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>Hepatoblastoma</b>				
<b>TUMOR RATES</b>				
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	---	---	---	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	4/1445 (0%)			
<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)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)



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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Hepatocellular Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	13/50 (26%)	4/49 (8%)	11/49 (22%)	8/50 (16%)
POLY-3 RATE (b)	13/43.20	4/40.52	11/46.26	8/47.91
POLY-3 PERCENT (g)	30.1%	9.9%	23.8%	16.7%
TERMINAL (d)	12/37 (32%)	3/33 (9%)	10/40 (25%)	8/41 (20%)
FIRST INCIDENCE	700	524	691	729 (T)
HC TUMORS SAME ROUTE	29/100 (29%)			
HC TUMORS ALL ROUTES	382/1445 (26%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.196N	P=0.019N*	P=0.332N	P=0.102N
POLY 1.5	P=0.206N	P=0.021N*	P=0.344N	P=0.111N
POLY 6	P=0.190N	P=0.019N*	P=0.333N	P=0.098N
COCH-ARM / FISHERS	P=0.306N	P=0.017N*	P=0.430N	P=0.163N
MAX-ISO-POLY-3	P=0.098N	P=0.011N*	P=0.259N	P=0.073N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 alpha/beta Thujone mixture  
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 Lab: SRI

**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Hepatocellular Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	3/50 (6%)	7/49 (14%)	3/49 (6%)	0/50 (0%)
POLY-3 RATE (b)	3/43.26	7/40.72	3/46.11	0/47.91
POLY-3 PERCENT (g)	6.9%	17.2%	6.5%	0%
TERMINAL (d)	2/37 (5%)	5/33 (15%)	3/40 (8%)	0/41 (0%)
FIRST INCIDENCE	683	524	729 (T)	---
HC TUMORS SAME ROUTE	10/100 (10%)			
HC TUMORS ALL ROUTES	135/1445 (9%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.028N*	P=0.132	P=0.632N	P=0.102N
POLY 1.5	P=0.030N*	P=0.129	P=0.636N	P=0.104N
POLY 6	P=0.027N*	P=0.131	P=0.635N	P=0.101N
COCH-ARM / FISHERS	P=0.045N*	P=0.151	P=0.651	P=0.121N
MAX-ISO-POLY-3	P=0.025N*	P=0.078	P=0.468N	P=0.038N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

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 Lab: SRI

**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Hepatocellular Carcinoma or Hepatoblastoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	3/50 (6%)	7/49 (14%)	3/49 (6%)	0/50 (0%)
POLY-3 RATE (b)	3/43.26	7/40.72	3/46.11	0/47.91
POLY-3 PERCENT (g)	6.9%	17.2%	6.5%	0%
TERMINAL (d)	2/37 (5%)	5/33 (15%)	3/40 (8%)	0/41 (0%)
FIRST INCIDENCE	683	524	729 (T)	---
HC TUMORS SAME ROUTE	10/100 (10%)			
HC TUMORS ALL ROUTES	138/1445 (10%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.028N*	P=0.132	P=0.632N	P=0.102N
POLY 1.5	P=0.030N*	P=0.129	P=0.636N	P=0.104N
POLY 6	P=0.027N*	P=0.131	P=0.635N	P=0.101N
COCH-ARM / FISHERS	P=0.045N*	P=0.151	P=0.651	P=0.121N
MAX-ISO-POLY-3	P=0.025N*	P=0.078	P=0.468N	P=0.038N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS 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>Hepatocellular Carcinoma or Hepatocellular Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	15/50 (30%)	10/49 (20%)	13/49 (27%)	8/50 (16%)
POLY-3 RATE (b)	15/43.37	10/40.72	13/46.26	8/47.91
POLY-3 PERCENT (g)	34.6%	24.6%	28.1%	16.7%
TERMINAL (d)	13/37 (35%)	8/33 (24%)	12/40 (30%)	8/41 (20%)
FIRST INCIDENCE	683	524	691	729 (T)
HC TUMORS SAME ROUTE	36/100 (36%)			
HC TUMORS ALL ROUTES	467/1445 (32%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.042N*	P=0.221N	P=0.333N	P=0.040N*
POLY 1.5	P=0.047N*	P=0.232N	P=0.344N	P=0.045N*
POLY 6	P=0.040N*	P=0.223N	P=0.337N	P=0.039N*
COCH-ARM / FISHERS	P=0.094N	P=0.193N	P=0.437N	P=0.077N
MAX-ISO-POLY-3	P=0.046N*	P=0.164N	P=0.262N	P=0.029N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	15/50 (30%)	10/49 (20%)	13/49 (27%)	8/50 (16%)
POLY-3 RATE (b)	15/43.37	10/40.72	13/46.26	8/47.91
POLY-3 PERCENT (g)	34.6%	24.6%	28.1%	16.7%
TERMINAL (d)	13/37 (35%)	8/33 (24%)	12/40 (30%)	8/41 (20%)
FIRST INCIDENCE	683	524	691	729 (T)
HC TUMORS SAME ROUTE	36/100 (36%)			
HC TUMORS ALL ROUTES	468/1445 (32%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.042N*	P=0.221N	P=0.333N	P=0.040N*
POLY 1.5	P=0.047N*	P=0.232N	P=0.344N	P=0.045N*
POLY 6	P=0.040N*	P=0.223N	P=0.337N	P=0.039N*
COCH-ARM / FISHERS	P=0.094N	P=0.193N	P=0.437N	P=0.077N
MAX-ISO-POLY-3	P=0.046N*	P=0.164N	P=0.262N	P=0.029N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Mast Cell Tumor Malignant</b>				
<b>TUMOR RATES</b>				
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	---	---	---	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	0/1445 (0%)			
<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)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Alveolar/Bronchiolar Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	3/50 (6%)	4/49 (8%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	3/43.08	4/40.09	2/46.74	2/48.05
POLY-3 PERCENT (g)	7%	10%	4.3%	4.2%
TERMINAL (d)	3/37 (8%)	3/33 (9%)	2/40 (5%)	1/41 (2%)
FIRST INCIDENCE	729 (T)	677	729 (T)	694
HC TUMORS SAME ROUTE	1/100 (1%)			
HC TUMORS ALL ROUTES	70/1446 (5%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.265N	P=0.461	P=0.463N	P=0.451N
POLY 1.5	P=0.272N	P=0.457	P=0.466N	P=0.459N
POLY 6	P=0.260N	P=0.459	P=0.466N	P=0.446N
COCH-ARM / FISHERS	P=0.316N	P=0.489	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.342N	P=0.317	P=0.299N	P=0.291N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Alveolar/Bronchiolar Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	3/49 (6%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	1/43.08	3/40.09	3/47.07	1/47.91
POLY-3 PERCENT (g)	2.3%	7.5%	6.4%	2.1%
TERMINAL (d)	1/37 (3%)	2/33 (6%)	1/40 (3%)	1/41 (2%)
FIRST INCIDENCE	729 (T)	677	682	729 (T)
HC TUMORS SAME ROUTE	9/100 (9%)			
HC TUMORS ALL ROUTES	58/1446 (4%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.434N	P=0.280	P=0.338	P=0.736N
POLY 1.5	P=0.443N	P=0.277	P=0.334	P=0.740N
POLY 6	P=0.429N	P=0.278	P=0.338	P=0.734N
COCH-ARM / FISHERS	P=0.497N	P=0.301	P=0.309	P=0.753N
MAX-ISO-POLY-3	P=0.381N	P=0.144	P=0.187	P=0.470N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)



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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	4/50 (8%)	6/49 (12%)	5/50 (10%)	3/50 (6%)
POLY-3 RATE (b)	4/43.08	6/40.09	5/47.07	3/48.05
POLY-3 PERCENT (g)	9.3%	15%	10.6%	6.2%
TERMINAL (d)	4/37 (11%)	5/33 (15%)	3/40 (8%)	2/41 (5%)
FIRST INCIDENCE	729 (T)	677	682	694
HC TUMORS SAME ROUTE	10/100 (10%)			
HC TUMORS ALL ROUTES	124/1446 (9%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.254N	P=0.324	P=0.555	P=0.441N
POLY 1.5	P=0.266N	P=0.321	P=0.548	P=0.451N
POLY 6	P=0.247N	P=0.321	P=0.555	P=0.435N
COCH-ARM / FISHERS	P=0.334N	P=0.357	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.310N	P=0.222	P=0.418	P=0.304N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Cystadenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/48 (4%)	0/47 (0%)	4/49 (8%)	3/48 (6%)
POLY-3 RATE (b)	2/41.14	0/38.89	4/46.11	3/45.98
POLY-3 PERCENT (g)	4.9%	0%	8.7%	6.5%
TERMINAL (d)	2/36 (6%)	0/32 (0%)	4/40 (10%)	3/40 (8%)
FIRST INCIDENCE	729 (T)	---	729 (T)	729 (T)
HC TUMORS SAME ROUTE	6/96 (6%)			
HC TUMORS ALL ROUTES	68/1420 (5%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.293	P=0.250N	P=0.391	P=0.550
POLY 1.5	P=0.284	P=0.251N	P=0.386	P=0.542
POLY 6	P=0.300	P=0.251N	P=0.390	P=0.555
COCH-ARM / FISHERS	P=0.230	P=0.253N	P=0.349	P=0.500
MAX-ISO-POLY-3	P=0.250	P=0.087N	P=0.254	P=0.376
HISTCONT SAME RTE	P=0.331	(e)	P=0.355	P=0.515
HISTCONT ALL RTEs	P=0.288	(e)	P=0.313	P=0.476

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Luteoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/48 (0%)	0/47 (0%)	2/49 (4%)	1/48 (2%)
POLY-3 RATE (b)	0/41.14	0/38.89	2/46.11	1/45.98
POLY-3 PERCENT (g)	0%	0%	4.3%	2.2%
TERMINAL (d)	0/36 (0%)	0/32 (0%)	2/40 (5%)	1/40 (3%)
FIRST INCIDENCE	---	---	729 (T)	729 (T)
HC TUMORS SAME ROUTE	0/96 (0%)			
HC TUMORS ALL ROUTES	4/1420 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.298	(e)	P=0.263	P=0.522
POLY 1.5	P=0.291	(e)	P=0.261	P=0.518
POLY 6	P=0.304	(e)	P=0.263	P=0.524
COCH-ARM / FISHERS	P=0.247	(e)	P=0.253	P=0.500
MAX-ISO-POLY-3	P=0.217	(e)	P=0.100	P=0.186
HISTCONT SAME RTE	P=0.198	(e)	P=0.103	P=0.104
HISTCONT ALL RTEs	P=0.007**	(e)	P=0.003**	P=0.053

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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 or Unspecified Site Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/49 (4%)	3/48 (6%)	3/48 (6%)	0/49 (0%)
POLY-3 RATE (b)	2/43.30	3/38.89	3/45.11	0/46.91
POLY-3 PERCENT (g)	4.6%	7.7%	6.7%	0%
TERMINAL (d)	1/37 (3%)	3/32 (9%)	3/39 (8%)	0/40 (0%)
FIRST INCIDENCE	669	729 (T)	729 (T)	---
HC TUMORS SAME ROUTE	2/95 (2%)			
HC TUMORS ALL ROUTES	96/1417 (7%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.133N	P=0.451	P=0.519	P=0.220N
POLY 1.5	P=0.138N	P=0.452	P=0.516	P=0.223N
POLY 6	P=0.132N	P=0.445	P=0.515	P=0.219N
COCH-ARM / FISHERS	P=0.164N	P=0.490	P=0.490	P=0.247N
MAX-ISO-POLY-3	P=0.131N	P=0.290	P=0.344	P=0.076N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Skeletal Muscle</b>				
<b>Hemangiosarcoma</b>				
<b>TUMOR 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	---	---	---	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	2/1448 (0%)			
<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)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>Skeletal Muscle</b>				
<b>Sarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	2/49 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	2/40.13	0/46.74	0/47.91
POLY-3 PERCENT (g)	0%	5%	0%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	6/77	---	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	2/1448 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.391N	P=0.221	(e)	(e)
POLY 1.5	P=0.395N	P=0.220	(e)	(e)
POLY 6	P=0.391N	P=0.221	(e)	(e)
COCH-ARM / FISHERS	P=0.404N	P=0.242	(e)	(e)
MAX-ISO-POLY-3	P=0.238N	P=0.074	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	3/50 (6%)	5/49 (10%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	3/43.59	5/40.75	2/47.84	1/47.91
POLY-3 PERCENT (g)	6.9%	12.3%	4.2%	2.1%
TERMINAL (d)	1/37 (3%)	2/33 (6%)	0/40 (0%)	1/41 (2%)
FIRST INCIDENCE	628	566	483	729 (T)
HC TUMORS SAME ROUTE	8/100 (8%)			
HC TUMORS ALL ROUTES	75/1448 (5%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.106N	P=0.319	P=0.458N	P=0.273N
POLY 1.5	P=0.109N	P=0.315	P=0.463N	P=0.277N
POLY 6	P=0.106N	P=0.318	P=0.460N	P=0.273N
COCH-ARM / FISHERS	P=0.134N	P=0.346	P=0.500N	P=0.309N
MAX-ISO-POLY-3	P=0.123N	P=0.208	P=0.296N	P=0.143N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 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 PRIMARY TUMORS 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>Fibrosarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	4/49 (8%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/43.59	4/40.65	1/47.13	0/47.91
POLY-3 PERCENT (g)	4.6%	9.8%	2.1%	0%
TERMINAL (d)	0/37 (0%)	2/33 (6%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	628	566	617	---
HC TUMORS SAME ROUTE	6/100 (6%)			
HC TUMORS ALL ROUTES	29/1448 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.070N	P=0.305	P=0.473N	P=0.217N
POLY 1.5	P=0.071N	P=0.302	P=0.475N	P=0.219N
POLY 6	P=0.070N	P=0.303	P=0.476N	P=0.217N
COCH-ARM / FISHERS	P=0.085N	P=0.329	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.069N	P=0.183	P=0.266N	P=0.076N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)



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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>				
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	3/50 (6%)	5/49 (10%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	3/43.59	5/40.75	2/47.84	1/47.91
POLY-3 PERCENT (g)	6.9%	12.3%	4.2%	2.1%
TERMINAL (d)	1/37 (3%)	2/33 (6%)	0/40 (0%)	1/41 (2%)
FIRST INCIDENCE	628	566	483	729 (T)
HC TUMORS SAME ROUTE	8/100 (8%)			
HC TUMORS ALL ROUTES	75/1448 (5%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.106N	P=0.319	P=0.458N	P=0.273N
POLY 1.5	P=0.109N	P=0.315	P=0.463N	P=0.277N
POLY 6	P=0.106N	P=0.318	P=0.460N	P=0.273N
COCH-ARM / FISHERS	P=0.134N	P=0.346	P=0.500N	P=0.309N
MAX-ISO-POLY-3	P=0.123N	P=0.208	P=0.296N	P=0.143N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Hemangiosarcoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	0/49 (0%)	2/48 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/43.14	0/39.89	2/45.81	0/47.91
POLY-3 PERCENT (g)	2.3%	0%	4.4%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	1/40 (3%)	0/41 (0%)
FIRST INCIDENCE	715	---	609	---
HC TUMORS SAME ROUTE	0/97 (0%)			
HC TUMORS ALL ROUTES	27/1428 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.414N	P=0.516N	P=0.521	P=0.479N
POLY 1.5	P=0.420N	P=0.516N	P=0.515	P=0.483N
POLY 6	P=0.410N	P=0.517N	P=0.523	P=0.478N
COCH-ARM / FISHERS	P=0.461N	P=0.505N	P=0.485	P=0.500N
MAX-ISO-POLY-3	P=0.333N	P=0.177N	P=0.305	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Mast Cell Tumor Malignant</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/48 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	0/39.89	0/45.39	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	---	---	---	---
HC TUMORS SAME ROUTE	0/97 (0%)			
HC TUMORS ALL ROUTES	1/1428 (0%)			
<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)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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 Squamous Cell Carcinoma or Papilloma Squamous</b>				
<b>TUMOR 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	---	---	---	---
HC TUMORS SAME ROUTE	1/100 (1%)			
HC TUMORS ALL ROUTES	28/1448 (2%)			
<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)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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 Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/48 (0%)	1/48 (2%)	0/49 (0%)
POLY-3 RATE (b)	0/43.08	0/39.89	1/45.11	0/46.98
POLY-3 PERCENT (g)	0%	0%	2.2%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	1/39 (3%)	0/41 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
HC TUMORS SAME ROUTE	3/96 (3%)			
HC TUMORS ALL ROUTES	32/1434 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.736	(e)	P=0.509	(e)
POLY 1.5	P=0.729	(e)	P=0.507	(e)
POLY 6	P=0.741	(e)	P=0.509	(e)
COCH-ARM / FISHERS	P=0.692	(e)	P=0.490	(e)
MAX-ISO-POLY-3	P=0.414	(e)	P=0.173	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS 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>Sarcoma Stromal or Polyp Stromal</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	2/49 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/43.20	2/39.89	1/46.74	0/47.91
POLY-3 PERCENT (g)	2.3%	5%	2.1%	0%
TERMINAL (d)	0/37 (0%)	2/33 (6%)	1/40 (3%)	0/41 (0%)
FIRST INCIDENCE	700	729 (T)	729 (T)	---
HC TUMORS SAME ROUTE	2/100 (2%)			
HC TUMORS ALL ROUTES	38/1448 (3%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.220N	P=0.472	P=0.743N	P=0.479N
POLY 1.5	P=0.224N	P=0.471	P=0.744N	P=0.483N
POLY 6	P=0.219N	P=0.469	P=0.745N	P=0.478N
COCH-ARM / FISHERS	P=0.246N	P=0.492	P=0.753N	P=0.500N
MAX-ISO-POLY-3	P=0.215N	P=0.264	P=0.477N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>All Organs</b>				
<b>Hemangioma</b>				
<b>TUMOR 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)	---
HC TUMORS SAME ROUTE	2/100 (2%)			
HC TUMORS ALL ROUTES	20/1448 (1%)			
<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)
HISTCONT SAME RTE	P=0.381	(e)	P=0.132	(e)
HISTCONT ALL RTEs	P=0.336	(e)	P=0.107	(e)

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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>All Organs</b>				
<b>Hemangiosarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	0/49 (0%)	4/50 (8%)	0/50 (0%)
POLY-3 RATE (b)	1/43.14	0/39.89	4/47.15	0/47.91
POLY-3 PERCENT (g)	2.3%	0%	8.5%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	3/40 (8%)	0/41 (0%)
FIRST INCIDENCE	715	---	609	---
HC TUMORS SAME ROUTE	4/100 (4%)			
HC TUMORS ALL ROUTES	67/1448 (5%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.455N	P=0.516N	P=0.207	P=0.479N
POLY 1.5	P=0.465N	P=0.516N	P=0.204	P=0.483N
POLY 6	P=0.449N	P=0.517N	P=0.206	P=0.478N
COCH-ARM / FISHERS	P=0.528N	P=0.505N	P=0.181	P=0.500N
MAX-ISO-POLY-3	P=0.228N	P=0.177N	P=0.110	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)



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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>All Organs</b>				
<b>Hemangiosarcoma or Hemangioma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	0/49 (0%)	6/50 (12%)	0/50 (0%)
POLY-3 RATE (b)	1/43.14	0/39.89	6/47.15	0/47.91
POLY-3 PERCENT (g)	2.3%	0%	12.7%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	5/40 (13%)	0/41 (0%)
FIRST INCIDENCE	715	---	609	---
HC TUMORS SAME ROUTE	6/100 (6%)			
HC TUMORS ALL ROUTES	87/1448 (6%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.482N	P=0.516N	P=0.072	P=0.479N
POLY 1.5	P=0.495N	P=0.516N	P=0.070	P=0.483N
POLY 6	P=0.474N	P=0.517N	P=0.071	P=0.478N
COCH-ARM / FISHERS	P=0.575N	P=0.505N	P=0.056	P=0.500N
MAX-ISO-POLY-3	P=0.154N	P=0.177N	P=0.037*	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>All Organs</b>				
<b>Histiocytic Sarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	2/49 (4%)	0/50 (0%)	4/50 (8%)
POLY-3 RATE (b)	2/43.14	2/40.03	0/46.74	4/48.10
POLY-3 PERCENT (g)	4.6%	5%	0%	8.3%
TERMINAL (d)	1/37 (3%)	1/33 (3%)	0/40 (0%)	1/41 (2%)
FIRST INCIDENCE	715	694	---	710
HC TUMORS SAME ROUTE	4/100 (4%)			
HC TUMORS ALL ROUTES	41/1448 (3%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.269	P=0.667	P=0.220N	P=0.389
POLY 1.5	P=0.264	P=0.665	P=0.221N	P=0.380
POLY 6	P=0.272	P=0.665	P=0.221N	P=0.394
COCH-ARM / FISHERS	P=0.235	P=0.684	P=0.247N	P=0.339
MAX-ISO-POLY-3	P=0.199	P=0.470	P=0.076N	P=0.253
HISTCONT SAME RTE	P=0.182	P=0.109	(e)	P=0.101
HISTCONT ALL RTEs	P=0.119	P=0.397	(e)	P=0.077

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>All Organs</b>				
<b>Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	6/50 (12%)	9/49 (18%)	13/50 (26%)	13/50 (26%)
POLY-3 RATE (b)	6/43.08	9/39.93	13/48.45	13/48.44
POLY-3 PERCENT (g)	13.9%	22.5%	26.8%	26.8%
TERMINAL (d)	6/37 (16%)	8/33 (24%)	8/40 (20%)	11/41 (27%)
FIRST INCIDENCE	729 (T)	719	609	647
HC TUMORS SAME ROUTE	20/100 (20%)			
HC TUMORS ALL ROUTES	294/1448 (20%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.106	P=0.232	P=0.103	P=0.103
POLY 1.5	P=0.094	P=0.230	P=0.094	P=0.094
POLY 6	P=0.117	P=0.226	P=0.111	P=0.110
COCH-ARM / FISHERS	P=0.048*	P=0.274	P=0.062	P=0.062
MAX-ISO-POLY-3	P=0.128	P=0.162	P=0.075	P=0.074
HISTCONT SAME RTE	P=0.173	P=0.228	P=0.104	P=0.104
HISTCONT ALL RTEs	P=0.146	P=0.193	P=0.084	P=0.084

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

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>All Organs</b>				
<b>Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	22/50 (44%)	14/49 (29%)	23/50 (46%)	19/50 (38%)
POLY-3 RATE (b)	22/43.42	14/40.72	23/47.22	19/48.58
POLY-3 PERCENT (g)	50.7%	34.4%	48.7%	39.1%
TERMINAL (d)	20/37 (54%)	12/33 (36%)	21/40 (53%)	16/41 (39%)
FIRST INCIDENCE	669	524	638	647
HC TUMORS SAME ROUTE	52/100 (52%)			
HC TUMORS ALL ROUTES	735/1448 (51%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.271N	P=0.096N	P=0.510N	P=0.183N
POLY 1.5	P=0.301N	P=0.105N	P=0.525N	P=0.209N
POLY 6	P=0.247N	P=0.096N	P=0.520N	P=0.167N
COCH-ARM / FISHERS	P=0.508N	P=0.083N	P=0.500	P=0.342N
MAX-ISO-POLY-3	P=0.228N	P=0.068N	P=0.427N	P=0.145N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

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

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>All Organs</b>				
<b>Malignant Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	19/50 (38%)	25/49 (51%)	25/50 (50%)	25/50 (50%)
POLY-3 RATE (b)	19/45.44	25/42.44	25/50.00	25/49.27
POLY-3 PERCENT (g)	41.8%	58.9%	50%	50.8%
TERMINAL (d)	12/37 (32%)	16/33 (49%)	15/40 (38%)	18/41 (44%)
FIRST INCIDENCE	246	524	483	579
HC TUMORS SAME ROUTE	53/100 (53%)			
HC TUMORS ALL ROUTES	697/1448 (48%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.368	P=0.081	P=0.277	P=0.254
POLY 1.5	P=0.347	P=0.073	P=0.251	P=0.238
POLY 6	P=0.376	P=0.085	P=0.296	P=0.261
COCH-ARM / FISHERS	P=0.190	P=0.135	P=0.157	P=0.157
MAX-ISO-POLY-3	P=0.240	P=0.058	P=0.224	P=0.202
HISTCONT SAME RTE	P=0.319	P=0.080	P=0.315	P=0.284
HISTCONT ALL RTEs	P=0.276	P=0.064	P=0.273	P=0.245

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 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 PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
<b>All Organs</b>				
<b>Malignant and Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	35/50 (70%)	31/49 (63%)	36/50 (72%)	34/50 (68%)
POLY-3 RATE (b)	35/45.67	31/42.44	36/50.00	34/49.27
POLY-3 PERCENT (g)	76.7%	73.1%	72%	69%
TERMINAL (d)	27/37 (73%)	22/33 (67%)	26/40 (65%)	27/41 (66%)
FIRST INCIDENCE	246	524	483	579
HC TUMORS SAME ROUTE	79/100 (79%)			
HC TUMORS ALL ROUTES	1096/1448 (76%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.241N	P=0.443N	P=0.388N	P=0.273N
POLY 1.5	P=0.263N	P=0.477N	P=0.440N	P=0.301N
POLY 6	P=0.237N	P=0.433N	P=0.360N	P=0.268N
COCH-ARM / FISHERS	P=0.521	P=0.310N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.341N	P=0.351N	P=0.310N	P=0.210N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

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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.
- (h) Value of Historical Controls statistic is only calculated when Poly-3 trend is positive and when there is more than one tumor in the treatment groups.
- (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 \*\*\*