

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
Adrenal Cortex				
Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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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**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
Bone Marrow				
Mast Cell Tumor Malignant				
TUMOR RATES				
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	0/1392 (0%)			
STATISTICAL TESTS				
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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**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
Harderian Gland Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Harderian Gland Carcinoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Harderian Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Intestine Small: Jejunum Carcinoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Intestine Small: Site Unspecified Carcinoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Intestine Small: Site Unspecified Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Intestine Small: Site Unspecified Leiomyosarcoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
Islets, Pancreatic Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hemangiosarcoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hepatoblastoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hepatocellular Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hepatocellular Carcinoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hepatocellular Carcinoma or Hepatoblastoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hepatocellular Carcinoma or Hepatocellular Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Mast Cell Tumor Malignant				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
 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
Lung				
Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Lung				
Alveolar/Bronchiolar Carcinoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
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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
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
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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
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Skeletal Muscle				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Skeletal Muscle				
Sarcoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Skin				
Fibrosarcoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
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
Skin				
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
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
Spleen				
Hemangiosarcoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Spleen				
Mast Cell Tumor Malignant				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
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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
Stomach, Forestomach Squamous Cell Carcinoma or Papilloma Squamous				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Thyroid Gland: Follicular Cell Carcinoma or Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
All Organs				
Hemangioma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
All Organs				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	7/50 (14%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	4/45.42	7/47.45	4/48.22	2/43.99
POLY-3 PERCENT (g)	8.8%	14.8%	8.3%	4.6%
TERMINAL (d)	4/40 (10%)	5/42 (12%)	4/41 (10%)	1/37 (3%)
FIRST INCIDENCE	729 (T)	663	729 (T)	691
HC TUMORS SAME ROUTE	11/100 (11%)			
HC TUMORS ALL ROUTES	95/1399 (7%)			
STATISTICAL TESTS				
POLY 3	P=0.174N	P=0.287	P=0.610N	P=0.352N
POLY 1.5	P=0.173N	P=0.272	P=0.623N	P=0.350N
POLY 6	P=0.176N	P=0.305	P=0.597N	P=0.353N
COCH-ARM / FISHERS	P=0.162N	P=0.262	P=0.643N	P=0.339N
MAX-ISO-POLY-3	P=0.199N	P=0.194	P=0.465N	P=0.216N
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	Males			
	0 MG/KG	3 MG/KG	6 MG/KG	12 MG/KG
All Organs				
Hemangiosarcoma or Hemangioma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
All Organs				
Histiocytic Sarcoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
 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
All Organs				
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
 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
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
 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
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
 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
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
 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
Adrenal Cortex				
Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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)

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
Bone Marrow				
Mast Cell Tumor Malignant				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	0/39.89	0/46.11	0/47.91
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	0/1443 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
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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**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
Harderian Gland Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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

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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**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
Harderian Gland Carcinoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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

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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 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
Harderian Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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

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
Intestine Small: Jejunum Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	0/39.89	0/46.74	0/47.91
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	4/1448 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

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
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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
Intestine Small: Site Unspecified Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	0/39.89	0/46.74	0/47.91
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	1/100 (1%)			
HC TUMORS ALL ROUTES	5/1448 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
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
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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
Intestine Small: Site Unspecified Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
 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
Intestine Small: Site Unspecified Leiomyosarcoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Islets, Pancreatic Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hemangiosarcoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
 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
Liver				
Hepatoblastoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	0/39.89	0/46.11	0/47.91
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	4/1445 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
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
Liver				
Hepatocellular Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
 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
Liver				
Hepatocellular Carcinoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
 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
Liver				
Hepatocellular Carcinoma or Hepatoblastoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
 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
Liver				
Hepatocellular Carcinoma or Hepatocellular Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
 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
Liver				
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
 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
Liver				
Mast Cell Tumor Malignant				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	0/39.89	0/46.11	0/47.91
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	0/1445 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
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
Lung				
Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Lung				
Alveolar/Bronchiolar Carcinoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Ovary				
Cystadenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Ovary				
Luteoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Skeletal Muscle				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	0/39.89	0/46.74	0/47.91
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	2/1448 (0%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
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
Skeletal Muscle				
Sarcoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Skin				
Fibrosarcoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Skin				
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Spleen				
Hemangiosarcoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Spleen				
Mast Cell Tumor Malignant				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
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
Stomach, Forestomach Squamous Cell Carcinoma or Papilloma Squamous				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.08	0/39.89	0/46.74	0/47.91
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/37 (0%)	0/33 (0%)	0/40 (0%)	0/41 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	1/100 (1%)			
HC TUMORS ALL ROUTES	28/1448 (2%)			
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
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
Thyroid Gland: Follicular Cell Carcinoma or Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Uterus				
Sarcoma Stromal or Polyp Stromal				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
 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
All Organs				
Hemangioma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
All Organs				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
All Organs				
Hemangiosarcoma or Hemangioma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
All Organs				
Histiocytic Sarcoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
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 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 alpha/beta Thujone mixture
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Date Report Requested: 09/09/2010
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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
All Organs				
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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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**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
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
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 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
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 CAS Number: THUJONEMIXAB

Date Report Requested: 09/09/2010
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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
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
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P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
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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
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
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P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
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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 ***