

TDMS No. 99023 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

beta-Myrcene
CAS Number: 123-35-3

Date Report Requested: 04/10/2008
Time Report Requested: 07:27:16
First Dose M/F: 03/25/02 / 03/26/02
Lab: BAT

F1_Rev.1_R2

C Number: C99023
Lock Date: 12/22/2004
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups:
Include 001 0 G/KG
Include 004 0.25 G/KG
Include 008 1.0 G/KG
TDMSE Version: 2.0.0

Include 002 0 G/KG

Include 003 0.25 G/KG

Include 005 0.5 G/KG

Include 006 0.5 G/KG

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HISTORICAL CONTROL STUDIES From March 2007 Report

SAME ROUTE

93023-06 -- 2,4-Hexadienal (GAVAGE CORN OIL)
88105-03 -- Isoeugenol (GAVAGE CORN OIL)

ALL ROUTES

88138-03 -- Benzophenone (ORAL FEED)
56111-03 -- trans-Cinnamaldehyde (ORAL FEED)
05174-05 -- Cresols (ORAL FEED)
96011-05 -- Cumene (INHALATION AIR)
93026-07 -- Decalin (INHALATION AIR)
93020-07 -- Diisopropylcarbodiimide (SKIN ETHANOL)
88031-05 -- Dipropylene glycol (ORAL WATER)
88004-05 -- Divinylbenzene (INHALATION AIR)
88122-06 -- Elmiron (sodium pentosanpolysulfate) (GAVAGE WATER)
88123-05 -- Formamide (GAVAGE WATER)
93023-06 -- 2,4-Hexadienal (GAVAGE CORN OIL)
95011-07 -- 5-(Hydroxymethyl)-2-furfural (GAVAGE WATER)
88105-03 -- Isoeugenol (GAVAGE CORN OIL)
97006-01 -- Methyl isobutyl ketone (INHALATION AIR)
91005-07 -- Methylene blue trihydrate (GAVAGE METHYLCELLULOSE)
92012-05 -- 2-Methylimidazole (ORAL FEED)
92013-05 -- 4-Methylimidazole (ORAL FEED)
88006-03 -- alpha-Methylstyrene (INHALATION AIR)
97008-05 -- Propargyl alcohol (INHALATION AIR)
90004-07 -- Propylene glycol mono-t-butyl ether (INHALATION AIR)
96001-05 -- Stoddard solvent (type IIC) (INHALATION AIR)
96019-05 -- Water disinfection byproducts (Bromochloroacetic acid) (ORAL WATER)
96018-03 -- Water disinfection byproducts (Bromodichloromethane) (ORAL WATER)

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HISTORICAL CONTROL STUDIES
From March 2007 Report

96017-05 -- Water disinfection byproducts (Dibromoacetic acid) (ORAL WATER)
96015-05 -- Water disinfection byproducts (Dibromoacetonitrile) (ORAL WATER)
96010-03 -- Water disinfection byproducts (Sodium chlorate) (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
Adrenal Medulla
Brain
Clitoral/Preputial Gland
Islets, Pancreatic
Kidney
Liver
Lung
Ovary
Pancreas
Parathyroid Gland
Pituitary Gland
Prostate
Salivary Glands
Testes
Thyroid Gland
Urinary Bladder

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF beta-Myrcene

MALE RATS

Organ

Adrenal Medulla
Clitoral/Preputial Gland

Islets, Pancreatic
Kidney: Renal Tubule

Mammary Gland

Thyroid Gland: C-Cell

FEMALE RATS

Organ

Clitoral/Preputial Gland

Mammary Gland

Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth,
Gingiva)

Pituitary Gland: Pars Distalis or Unspecified Site
Skin

Thyroid Gland: C-Cell
Zymbal's Gland
All Organs

Morphology

Pheochromocytoma: Benign, Complex, Malignant, NOS
Adenoma
Carcinoma or Adenoma
Carcinoma or Adenoma
Adenoma
Carcinoma
Carcinoma or Adenoma
Fibroadenoma
Fibroma, Fibroadenoma, Carcinoma, or Adenoma
Adenoma

Morphology

Adenoma
Carcinoma or Adenoma
Fibroadenoma
Fibroma, Fibroadenoma, Carcinoma, or Adenoma
Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma

Adenoma
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous
Histiocytoma
Lipoma
Adenoma
Carcinoma
Benign Tumors
Malignant and Benign Tumors

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**Adrenal Medulla
 Pheochromocytoma Benign**

TUMOR RATES

OVERALL (a)	11/50 (22%)	6/50 (12%)	5/50 (10%)
POLY-3 RATE (b)	11/43.21	6/45.2	5/41.94
POLY-3 PERCENT (g)	25.5%	13.3%	11.9%
TERMINAL (d)	7/29 (24%)	6/36 (17%)	4/28 (14%)
FIRST INCIDENCE	674	729 (T)	709
HC TUMORS SAME RTE	12/100 (12%)		
HC TUMORS ALL RTES	193/1343 (14%)		

STATISTICAL TESTS

POLY 3	P=0.063N	P=0.117N	P=0.091N
POLY 1.5	P=0.065N	P=0.128N	P=0.093N
POLY 6	P=0.064N	P=0.104N	P=0.092N
COCH-ARM / FISHERS	P=0.060N	P=0.143N	P=0.086N
MAX-ISO-POLY-3	P=0.067N	P=0.076N	P=0.055N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**Adrenal Medulla
 Pheochromocytoma Malignant**

TUMOR RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/42.71	0/45.2	0/41.86
POLY-3 PERCENT (g)	4.7%	0%	0%
TERMINAL (d)	2/29 (7%)	0/36 (0%)	0/28 (0%)
FIRST INCIDENCE	729 (T)	---	---
HC TUMORS SAME RTE	3/100 (3%)		
HC TUMORS ALL RTES	31/1343 (2%)		

STATISTICAL TESTS

POLY 3	P=0.096N	P=0.225N	P=0.241N
POLY 1.5	P=0.097N	P=0.231N	P=0.243N
POLY 6	P=0.096N	P=0.217N	P=0.241N
COCH-ARM / FISHERS	P=0.095N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.056N	P=0.076N	P=0.080N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**Adrenal Medulla
 Pheochromocytoma: Benign, Complex, Malignant, NOS**

TUMOR RATES

OVERALL (a)	13/50 (26%)	6/50 (12%)	5/50 (10%)
POLY-3 RATE (b)	13/43.21	6/45.2	5/41.94
POLY-3 PERCENT (g)	30.1%	13.3%	11.9%
TERMINAL (d)	9/29 (31%)	6/36 (17%)	4/28 (14%)
FIRST INCIDENCE	674	729 (T)	709
HC TUMORS SAME RTE	14/100 (14%)		
HC TUMORS ALL RTES	223/1343 (17%)		

STATISTICAL TESTS

POLY 3	P=0.020N*	P=0.045N*	P=0.034N*
POLY 1.5	P=0.021N*	P=0.052N	P=0.036N*
POLY 6	P=0.020N*	P=0.038N*	P=0.034N*
COCH-ARM / FISHERS	P=0.020N*	P=0.062N	P=0.033N*
MAX-ISO-POLY-3	P=0.020N*	P=0.028N*	P=0.019N*
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG
Bone			
Osteosarcoma or Osteoma			
TUMOR RATES	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/43.44	0/45.2	2/43.13
POLY-3 PERCENT (g)	2.3%	0%	4.6%
TERMINAL (d)	0/29 (0%)	0/36 (0%)	0/28 (0%)
FIRST INCIDENCE	474	---	486
HC TUMORS SAME RTE	2/100 (2%)		
HC TUMORS ALL RTES	10/1349 (1%)		

STATISTICAL TESTS

POLY 3	P=0.360	P=0.492N	P=0.498
POLY 1.5	P=0.360	P=0.496N	P=0.494
POLY 6	P=0.360	P=0.486N	P=0.500
COCH-ARM / FISHERS	P=0.360	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.194	P=0.158N	P=0.279
HISTCONT SAME RTE	P=0.263	(e)	P=0.308
HISTCONT ALL RTES	P=0.078	(e)	P=0.061

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 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

Clitoral/Preputial Gland
 Adenoma

TUMOR RATES

OVERALL (a)	5/50 (10%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	5/43.7	1/45.2	0/41.86
POLY-3 PERCENT (g)	11.4%	2.2%	0%
TERMINAL (d)	0/29 (0%)	1/36 (3%)	0/28 (0%)
FIRST INCIDENCE	667	729 (T)	---
HC TUMORS SAME RTE	3/99 (3%)		
HC TUMORS ALL RTES	44/1342 (3%)		

STATISTICAL TESTS

POLY 3	P=0.011N*	P=0.093N	P=0.034N*
POLY 1.5	P=0.011N*	P=0.097N	P=0.034N*
POLY 6	P=0.011N*	P=0.090N	P=0.036N*
COCH-ARM / FISHERS	P=0.011N*	P=0.102N	P=0.028N*
MAX-ISO-POLY-3	P=0.008N**	P=0.043N*	P=0.012N*
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**Clitoral/Preputial Gland
 Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	5/50 (10%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	5/43.7	2/45.7	0/41.86
POLY-3 PERCENT (g)	11.4%	4.4%	0%
TERMINAL (d)	0/29 (0%)	1/36 (3%)	0/28 (0%)
FIRST INCIDENCE	667	578	---
HC TUMORS SAME RTE	8/99 (8%)		
HC TUMORS ALL RTEs	70/1342 (5%)		

STATISTICAL TESTS

POLY 3	P=0.017N*	P=0.198N	P=0.034N*
POLY 1.5	P=0.017N*	P=0.206N	P=0.034N*
POLY 6	P=0.018N*	P=0.189N	P=0.036N*
COCH-ARM / FISHERS	P=0.016N*	P=0.218N	P=0.028N*
MAX-ISO-POLY-3	P=0.013N*	P=0.112N	P=0.012N*
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**Islets, Pancreatic
 Adenoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/42.71	0/45.2	0/41.86
POLY-3 PERCENT (g)	4.7%	0%	0%
TERMINAL (d)	2/29 (7%)	0/36 (0%)	0/28 (0%)
FIRST INCIDENCE	729 (T)	---	---
HC TUMORS SAME RTE	8/100 (8%)		
HC TUMORS ALL RTES	76/1338 (6%)		

STATISTICAL TESTS

POLY 3	P=0.096N	P=0.225N	P=0.241N
POLY 1.5	P=0.097N	P=0.231N	P=0.243N
POLY 6	P=0.096N	P=0.217N	P=0.241N
COCH-ARM / FISHERS	P=0.095N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.056N	P=0.076N	P=0.080N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**Islets, Pancreatic
 Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/42.87	0/45.2	0/41.86
POLY-3 PERCENT (g)	7%	0%	0%
TERMINAL (d)	2/29 (7%)	0/36 (0%)	0/28 (0%)
FIRST INCIDENCE	688	---	---
HC TUMORS SAME RTE	8/100 (8%)		
HC TUMORS ALL RTES	105/1338 (8%)		

STATISTICAL TESTS

POLY 3	P=0.036N*	P=0.109N	P=0.123N
POLY 1.5	P=0.036N*	P=0.114N	P=0.124N
POLY 6	P=0.036N*	P=0.104N	P=0.123N
COCH-ARM / FISHERS	P=0.037N*	P=0.121N	P=0.121N
MAX-ISO-POLY-3	P=0.021N*	P=0.038N*	P=0.041N*
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**Kidney: Renal Tubule
 Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	4/50 (8%)	8/50 (16%)
POLY-3 RATE (b)	0/42.71	4/45.25	8/42.91
POLY-3 PERCENT (g)	0%	8.8%	18.7%
TERMINAL (d)	0/29 (0%)	3/36 (8%)	5/28 (18%)
FIRST INCIDENCE	---	717	551
HC TUMORS SAME RTE	0/100 (0%)		
HC TUMORS ALL RTES	7/1337 (1%)		

STATISTICAL TESTS

POLY 3	P=0.002**	P=0.068	P=0.003**
POLY 1.5	P=0.002**	P=0.064	P=0.003**
POLY 6	P=0.002**	P=0.073	P=0.004**
COCH-ARM / FISHERS	P=0.003**	P=0.059	P=0.003**
MAX-ISO-POLY-3	P<0.001**	P=0.025*	P<0.001**
HISTCONT SAME RTE	P=0.002**	P=0.033*	P<0.001**
HISTCONT ALL RTES	P<0.001**	P<0.001**	P<0.001**

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DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

Kidney: Renal Tubule
 Carcinoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	0/42.71	3/45.48	1/41.86
POLY-3 PERCENT (g)	0%	6.6%	2.4%
TERMINAL (d)	0/29 (0%)	2/36 (6%)	1/28 (4%)
FIRST INCIDENCE	---	652	729 (T)
HC TUMORS SAME RTE	0/100 (0%)		
HC TUMORS ALL RTES	2/1337 (0%)		

STATISTICAL TESTS

POLY 3	P=0.369	P=0.130	P=0.496
POLY 1.5	P=0.366	P=0.125	P=0.495
POLY 6	P=0.368	P=0.138	P=0.496
COCH-ARM / FISHERS	P=0.378	P=0.121	P=0.500
MAX-ISO-POLY-3	P=0.160	P=0.048*	P=0.158
HISTCONT SAME RTE	P=0.216	P=0.065	P=0.124
HISTCONT ALL RTES	P<0.001**	P<0.001**	P=0.019*

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**Kidney: Renal Tubule
 Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	7/50 (14%)	9/50 (18%)
POLY-3 RATE (b)	0/42.71	7/45.53	9/42.91
POLY-3 PERCENT (g)	0%	15.4%	21%
TERMINAL (d)	0/29 (0%)	5/36 (14%)	6/28 (21%)
FIRST INCIDENCE	---	652	551
HC TUMORS SAME RTE	0/100 (0%)		
HC TUMORS ALL RTES	9/1337 (1%)		

STATISTICAL TESTS

POLY 3	P=0.002**	P=0.010**	P=0.002**
POLY 1.5	P=0.002**	P=0.009**	P=0.002**
POLY 6	P=0.002**	P=0.011*	P=0.002**
COCH-ARM / FISHERS	P=0.003**	P=0.006**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.004**	P<0.001**
HISTCONT SAME RTE	P=0.002**	P=0.004**	P<0.001**
HISTCONT ALL RTES	P<0.001**	P<0.001**	P<0.001**

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

Lung
 Alveolar/Bronchiolar Adenoma

TUMOR RATES

OVERALL (a)	3/50 (6%)	7/50 (14%)	1/50 (2%)
POLY-3 RATE (b)	3/43.18	7/45.3	1/42.07
POLY-3 PERCENT (g)	7%	15.5%	2.4%
TERMINAL (d)	1/29 (3%)	6/36 (17%)	0/28 (0%)
FIRST INCIDENCE	667	704	674
HC TUMORS SAME RTE	4/100 (4%)		
HC TUMORS ALL RTES	31/1349 (2%)		

STATISTICAL TESTS

POLY 3	P=0.299N	P=0.177	P=0.314N
POLY 1.5	P=0.301N	P=0.168	P=0.316N
POLY 6	P=0.303N	P=0.189	P=0.316N
COCH-ARM / FISHERS	P=0.283N	P=0.159	P=0.309N
MAX-ISO-POLY-3	P=0.097N	P=0.108	P=0.163N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

Lung
 Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma

TUMOR RATES

OVERALL (a)	3/50 (6%)	7/50 (14%)	1/50 (2%)
POLY-3 RATE (b)	3/43.18	7/45.3	1/42.07
POLY-3 PERCENT (g)	7%	15.5%	2.4%
TERMINAL (d)	1/29 (3%)	6/36 (17%)	0/28 (0%)
FIRST INCIDENCE	667	704	674
HC TUMORS SAME RTE	5/100 (5%)		
HC TUMORS ALL RTES	51/1349 (4%)		

STATISTICAL TESTS

POLY 3	P=0.299N	P=0.177	P=0.314N
POLY 1.5	P=0.301N	P=0.168	P=0.316N
POLY 6	P=0.303N	P=0.189	P=0.316N
COCH-ARM / FISHERS	P=0.283N	P=0.159	P=0.309N
MAX-ISO-POLY-3	P=0.097N	P=0.108	P=0.163N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG
Mammary Gland Carcinoma			
TUMOR RATES	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.71	0/45.2	0/41.86
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/29 (0%)	0/36 (0%)	0/28 (0%)
FIRST INCIDENCE	---	---	---
HC TUMORS SAME RTE	2/100 (2%)		
HC TUMORS ALL RTES	10/1349 (1%)		

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG
Mammary Gland Fibroadenoma			
TUMOR RATES	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	0/42.71	2/45.2	4/41.86
POLY-3 PERCENT (g)	0%	4.4%	9.6%
TERMINAL (d)	0/29 (0%)	2/36 (6%)	4/28 (14%)
FIRST INCIDENCE	---	729 (T)	729 (T)
HC TUMORS SAME RTE	7/100 (7%)		
HC TUMORS ALL RTES	51/1349 (4%)		

STATISTICAL TESTS

POLY 3	P=0.034*	P=0.250	P=0.057
POLY 1.5	P=0.034*	P=0.244	P=0.057
POLY 6	P=0.034*	P=0.258	P=0.057
COCH-ARM / FISHERS	P=0.037*	P=0.247	P=0.059
MAX-ISO-POLY-3	P=0.026*	P=0.088	P=0.019*
HISTCONT SAME RTE	P=0.033*	P=0.124	P=0.025*
HISTCONT ALL RTES	P=0.027*	P=0.101	P=0.019*

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

	Males		
DOSE	0 G/KG	0.25 G/KG	0.5 G/KG

**Mammary Gland
 Fibroma, Fibroadenoma, Carcinoma, or Adenoma**

TUMOR RATES	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	0/42.71	2/45.2	4/41.86
POLY-3 PERCENT (g)	0%	4.4%	9.6%
TERMINAL (d)	0/29 (0%)	2/36 (6%)	4/28 (14%)
FIRST INCIDENCE	---	729 (T)	729 (T)
HC TUMORS SAME RTE	9/100 (9%)		
HC TUMORS ALL RTES	68/1349 (5%)		

STATISTICAL TESTS

POLY 3	P=0.034*	P=0.250	P=0.057
POLY 1.5	P=0.034*	P=0.244	P=0.057
POLY 6	P=0.034*	P=0.258	P=0.057
COCH-ARM / FISHERS	P=0.037*	P=0.247	P=0.059
MAX-ISO-POLY-3	P=0.026*	P=0.088	P=0.019*
HISTCONT SAME RTE	P=0.033*	P=0.124	P=0.025*
HISTCONT ALL RTES	P=0.027*	P=0.101	P=0.019*

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva)
 Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma**

TUMOR RATES	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.36	0/45.2	0/41.86
POLY-3 PERCENT (g)	2.3%	0%	0%
TERMINAL (d)	0/29 (0%)	0/36 (0%)	0/28 (0%)
FIRST INCIDENCE	516	---	---
HC TUMORS SAME RTE	2/100 (2%)		
HC TUMORS ALL RTES	9/1349 (1%)		

STATISTICAL TESTS

POLY 3	P=0.276N	P=0.492N	P=0.507N
POLY 1.5	P=0.276N	P=0.496N	P=0.507N
POLY 6	P=0.277N	P=0.486N	P=0.509N
COCH-ARM / FISHERS	P=0.269N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.163N	P=0.158N	P=0.167N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**Pancreas
 Adenoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/42.71	0/45.2	2/41.86
POLY-3 PERCENT (g)	2.3%	0%	4.8%
TERMINAL (d)	1/29 (3%)	0/36 (0%)	2/28 (7%)
FIRST INCIDENCE	729 (T)	---	729 (T)
HC TUMORS SAME RTE	17/100 (17%)		
HC TUMORS ALL RTEs	30/1336 (2%)		

STATISTICAL TESTS

POLY 3	P=0.360	P=0.489N	P=0.493
POLY 1.5	P=0.359	P=0.494N	P=0.491
POLY 6	P=0.360	P=0.481N	P=0.492
COCH-ARM / FISHERS	P=0.360	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.192	P=0.158N	P=0.276
HISTCONT SAME RTE	P=0.260	(e)	P=0.385
HISTCONT ALL RTEs	P=0.222	(e)	P=0.344

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**Pituitary Gland: Pars Distalis or Unspecified Site
 Adenoma**

TUMOR RATES

OVERALL (a)	6/50 (12%)	10/49 (20%)	5/50 (10%)
POLY-3 RATE (b)	6/42.72	10/44.66	5/42.2
POLY-3 PERCENT (g)	14%	22.4%	11.9%
TERMINAL (d)	5/29 (17%)	9/36 (25%)	3/28 (11%)
FIRST INCIDENCE	726	611	666
HC TUMORS SAME RTE	31/100 (31%)		
HC TUMORS ALL RTES	606/1339 (45%)		

STATISTICAL TESTS

POLY 3	P=0.454N	P=0.232	P=0.509N
POLY 1.5	P=0.464N	P=0.213	P=0.515N
POLY 6	P=0.448N	P=0.260	P=0.505N
COCH-ARM / FISHERS	P=0.443N	P=0.194	P=0.500N
MAX-ISO-POLY-3	P=0.297N	P=0.163	P=0.381N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**Skin
 Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma**

TUMOR RATES	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/42.71	2/45.2	1/42.41
POLY-3 PERCENT (g)	0%	4.4%	2.4%
TERMINAL (d)	0/29 (0%)	2/36 (6%)	0/28 (0%)
FIRST INCIDENCE	---	729 (T)	560
HC TUMORS SAME RTE	1/100 (1%)		
HC TUMORS ALL RTES	21/1349 (2%)		

STATISTICAL TESTS

POLY 3	P=0.358	P=0.250	P=0.499
POLY 1.5	P=0.355	P=0.244	P=0.496
POLY 6	P=0.360	P=0.258	P=0.500
COCH-ARM / FISHERS	P=0.360	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.209	P=0.088	P=0.158
HISTCONT SAME RTE	P=0.282	P=0.124	P=0.223
HISTCONT ALL RTES	P=0.241	P=0.101	P=0.188

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

Skin
 Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma

TUMOR RATES	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/43.51	2/45.2	1/42.41
POLY-3 PERCENT (g)	2.3%	4.4%	2.4%
TERMINAL (d)	0/29 (0%)	2/36 (6%)	0/28 (0%)
FIRST INCIDENCE	429	729 (T)	560
HC TUMORS SAME RTE	2/100 (2%)		
HC TUMORS ALL RTES	27/1349 (2%)		

STATISTICAL TESTS

POLY 3	P=0.613	P=0.513	P=0.755
POLY 1.5	P=0.611	P=0.506	P=0.754
POLY 6	P=0.613	P=0.524	P=0.755
COCH-ARM / FISHERS	P=0.622	P=0.500	P=0.753N
MAX-ISO-POLY-3	P=0.525	P=0.295	P=0.492
HISTCONT SAME RTE	P=0.380	P=0.111	P=0.138
HISTCONT ALL RTES	P=0.597	P=0.290	P=0.621

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

Skin
 Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma

TUMOR RATES	#	#	#
OVERALL (a)	3/50 (6%)	8/50 (16%)	3/50 (6%)
POLY-3 RATE (b)	3/43.51	8/45.2	3/42.41
POLY-3 PERCENT (g)	6.9%	17.7%	7.1%
TERMINAL (d)	2/29 (7%)	8/36 (22%)	2/28 (7%)
FIRST INCIDENCE	429	729 (T)	560
HC TUMORS SAME RTE	13/100 (13%)		
HC TUMORS ALL RTES	121/1349 (9%)		

STATISTICAL TESTS

POLY 3	P=0.548	P=0.110	P=0.651
POLY 1.5	P=0.544	P=0.104	P=0.648
POLY 6	P=0.549	P=0.119	P=0.652
COCH-ARM / FISHERS	P=0.568	P=0.100	P=0.661N
MAX-ISO-POLY-3	P=0.281	P=0.063	P=0.487
HISTCONT SAME RTE	P=0.378	P=0.088	P=0.640
HISTCONT ALL RTES	P=0.330	P=0.070	P=0.614

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG
Skin Fibroma			
TUMOR RATES	#	#	#
OVERALL (a)	3/50 (6%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	3/42.71	4/45.2	3/42.1
POLY-3 PERCENT (g)	7%	8.9%	7.1%
TERMINAL (d)	3/29 (10%)	4/36 (11%)	2/28 (7%)
FIRST INCIDENCE	729 (T)	729 (T)	666
HC TUMORS SAME RTE	9/100 (9%)		
HC TUMORS ALL RTES	121/1349 (9%)		

STATISTICAL TESTS

POLY 3	P=0.572	P=0.531	P=0.656
POLY 1.5	P=0.567	P=0.516	P=0.652
POLY 6	P=0.574	P=0.551	P=0.659
COCH-ARM / FISHERS	P=0.579	P=0.500	P=0.661N
MAX-ISO-POLY-3	P=0.586	P=0.379	P=0.492
HISTCONT SAME RTE	P=0.731	P=0.518	P=0.646
HISTCONT ALL RTES	P=0.706	P=0.479	P=0.621

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

	Males		
DOSE	0 G/KG	0.25 G/KG	0.5 G/KG

**Skin
 Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma**

TUMOR RATES	#	#	#
OVERALL (a)	4/50 (8%)	5/50 (10%)	5/50 (10%)
POLY-3 RATE (b)	4/43.12	5/45.61	5/42.1
POLY-3 PERCENT (g)	9.3%	11%	11.9%
TERMINAL (d)	3/29 (10%)	4/36 (11%)	4/28 (14%)
FIRST INCIDENCE	611	611	666
HC TUMORS SAME RTE	14/100 (14%)		
HC TUMORS ALL RTES	157/1349 (12%)		

STATISTICAL TESTS

POLY 3	P=0.418	P=0.535	P=0.485
POLY 1.5	P=0.415	P=0.518	P=0.482
POLY 6	P=0.416	P=0.557	P=0.483
COCH-ARM / FISHERS	P=0.432	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.486	P=0.398	P=0.349
HISTCONT SAME RTE	P=0.623	P=0.541	P=0.481
HISTCONT ALL RTES	P=0.587	P=0.504	P=0.442

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**Skin
 Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma**

TUMOR RATES	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/43.12	1/45.61	2/41.86
POLY-3 PERCENT (g)	2.3%	2.2%	4.8%
TERMINAL (d)	0/29 (0%)	0/36 (0%)	2/28 (7%)
FIRST INCIDENCE	611	611	729 (T)
HC TUMORS SAME RTE	5/100 (5%)		
HC TUMORS ALL RTES	38/1349 (3%)		

STATISTICAL TESTS

POLY 3	P=0.373	P=0.748N	P=0.490
POLY 1.5	P=0.373	P=0.754N	P=0.489
POLY 6	P=0.372	P=0.740N	P=0.487
COCH-ARM / FISHERS	P=0.378	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.358	P=0.484N	P=0.274
HISTCONT SAME RTE	P=0.473	P=1.000	P=0.383
HISTCONT ALL RTES	P=0.427	P=1.000	P=0.342

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

	Males		
DOSE	0 G/KG	0.25 G/KG	0.5 G/KG

**Skin
 Keratoacanthoma**

TUMOR RATES	#	#	#
OVERALL (a)	2/50 (4%)	6/50 (12%)	2/50 (4%)
POLY-3 RATE (b)	2/42.71	6/45.2	2/41.86
POLY-3 PERCENT (g)	4.7%	13.3%	4.8%
TERMINAL (d)	2/29 (7%)	6/36 (17%)	2/28 (7%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)
HC TUMORS SAME RTE	10/100 (10%)		
HC TUMORS ALL RTES	75/1349 (6%)		

STATISTICAL TESTS

POLY 3	P=0.566	P=0.151	P=0.687
POLY 1.5	P=0.562	P=0.143	P=0.685
POLY 6	P=0.566	P=0.164	P=0.687
COCH-ARM / FISHERS	P=0.579	P=0.134	P=0.691N
MAX-ISO-POLY-3	P=0.310	P=0.086	P=0.491
HISTCONT SAME RTE	P=0.415	P=0.121	P=0.645
HISTCONT ALL RTES	P=0.368	P=0.098	P=0.620

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG
Skin			
Lipoma			
TUMOR RATES	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/42.71	2/45.2	0/41.86
POLY-3 PERCENT (g)	0%	4.4%	0%
TERMINAL (d)	0/29 (0%)	2/36 (6%)	0/28 (0%)
FIRST INCIDENCE	---	729 (T)	---
HC TUMORS SAME RTE	3/100 (3%)		
HC TUMORS ALL RTES	14/1349 (1%)		

STATISTICAL TESTS

POLY 3	P=0.662	P=0.250	(e)
POLY 1.5	P=0.660	P=0.244	(e)
POLY 6	P=0.662	P=0.258	(e)
COCH-ARM / FISHERS	P=0.669	P=0.247	(e)
MAX-ISO-POLY-3	P=0.278	P=0.088	(e)
HISTCONT SAME RTE	P=0.375	P=0.124	(e)
HISTCONT ALL RTES	P=0.328	P=0.091	(e)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
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 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

Testes
 Adenoma

TUMOR RATES

OVERALL (a)	47/50 (94%)	45/50 (90%)	46/50 (92%)
POLY-3 RATE (b)	47/48.55	45/48.34	46/47
POLY-3 PERCENT (g)	96.8%	93.1%	97.9%
TERMINAL (d)	28/29 (97%)	33/36 (92%)	28/28 (100%)
FIRST INCIDENCE	429	544	486
HC TUMORS SAME RTE	87/100 (87%)		
HC TUMORS ALL RTES	1159/1349 (86%)		

STATISTICAL TESTS

POLY 3	P=0.509	P=0.346N	P=0.642
POLY 1.5	P=0.486	P=0.369N	P=0.593
POLY 6	P=0.516	P=0.317N	P=0.670
COCH-ARM / FISHERS	P=0.427N	P=0.357N	P=0.500N
MAX-ISO-POLY-3	P=0.306	P=0.188N	P=0.352
HISTCONT SAME RTE	P=0.223	P=0.515	P=0.204
HISTCONT ALL RTES	P=0.177	P=0.472	P=0.226

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**Thyroid Gland: C-Cell
 Adenoma**

TUMOR RATES

OVERALL (a)	12/50 (24%)	6/50 (12%)	4/50 (8%)
POLY-3 RATE (b)	12/43.91	6/45.2	4/42.1
POLY-3 PERCENT (g)	27.3%	13.3%	9.5%
TERMINAL (d)	9/29 (31%)	6/36 (17%)	3/28 (11%)
FIRST INCIDENCE	528	729 (T)	666
HC TUMORS SAME RTE	13/100 (13%)		
HC TUMORS ALL RTES	157/1327 (12%)		

STATISTICAL TESTS

POLY 3	P=0.018N*	P=0.080N	P=0.030N*
POLY 1.5	P=0.018N*	P=0.087N	P=0.030N*
POLY 6	P=0.018N*	P=0.072N	P=0.031N*
COCH-ARM / FISHERS	P=0.017N*	P=0.096N	P=0.027N*
MAX-ISO-POLY-3	P=0.018N*	P=0.050N*	P=0.017N*
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**Thyroid Gland: Follicular Cell
 Adenoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	1/42.71	2/45.2	3/42.07
POLY-3 PERCENT (g)	2.3%	4.4%	7.1%
TERMINAL (d)	1/29 (3%)	2/36 (6%)	2/28 (7%)
FIRST INCIDENCE	729 (T)	729 (T)	674
HC TUMORS SAME RTE	1/100 (1%)		
HC TUMORS ALL RTES	14/1327 (1%)		

STATISTICAL TESTS

POLY 3	P=0.219	P=0.520	P=0.299
POLY 1.5	P=0.217	P=0.510	P=0.297
POLY 6	P=0.219	P=0.532	P=0.300
COCH-ARM / FISHERS	P=0.222	P=0.500	P=0.309
MAX-ISO-POLY-3	P=0.212	P=0.302	P=0.151
HISTCONT SAME RTE	P=0.098	P=0.135	P=0.118
HISTCONT ALL RTES	P<0.001**	P=0.073	P=0.012*

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**Thyroid Gland: Follicular Cell
 Carcinoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	2/42.92	2/45.2	1/41.86
POLY-3 PERCENT (g)	4.7%	4.4%	2.4%
TERMINAL (d)	1/29 (3%)	2/36 (6%)	1/28 (4%)
FIRST INCIDENCE	674	729 (T)	729 (T)
HC TUMORS SAME RTE	2/100 (2%)		
HC TUMORS ALL RTEs	16/1327 (1%)		

STATISTICAL TESTS

POLY 3	P=0.402N	P=0.675N	P=0.509N
POLY 1.5	P=0.403N	P=0.684N	P=0.510N
POLY 6	P=0.404N	P=0.664N	P=0.511N
COCH-ARM / FISHERS	P=0.390N	P=0.691N	P=0.500N
MAX-ISO-POLY-3	P=0.415N	P=0.478N	P=0.290N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
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 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**Thyroid Gland: Follicular Cell
 Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	3/50 (6%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	3/42.92	4/45.2	4/42.07
POLY-3 PERCENT (g)	7%	8.9%	9.5%
TERMINAL (d)	2/29 (7%)	4/36 (11%)	3/28 (11%)
FIRST INCIDENCE	674	729 (T)	674
HC TUMORS SAME RTE	3/100 (3%)		
HC TUMORS ALL RTES	30/1327 (2%)		

STATISTICAL TESTS

POLY 3	P=0.414	P=0.528	P=0.489
POLY 1.5	P=0.411	P=0.515	P=0.486
POLY 6	P=0.413	P=0.546	P=0.488
COCH-ARM / FISHERS	P=0.424	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.471	P=0.376	P=0.338
HISTCONT SAME RTE	P=0.105	P=0.128	P=0.131
HISTCONT ALL RTES	P=0.002**	P=0.033*	P=0.031*

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
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 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

	Males		
DOSE	0 G/KG	0.25 G/KG	0.5 G/KG

**Zymbal's Gland
 Carcinoma**

TUMOR RATES	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/42.71	1/45.2	0/41.86
POLY-3 PERCENT (g)	0%	2.2%	0%
TERMINAL (d)	0/29 (0%)	1/36 (3%)	0/28 (0%)
FIRST INCIDENCE	---	729 (T)	---
HC TUMORS SAME RTE	3/100 (3%)		
HC TUMORS ALL RTEs	15/1349 (1%)		

STATISTICAL TESTS

POLY 3	P=0.727	P=0.511	(e)
POLY 1.5	P=0.726	P=0.506	(e)
POLY 6	P=0.726	P=0.519	(e)
COCH-ARM / FISHERS	P=0.731	P=0.500	(e)
MAX-ISO-POLY-3	P=0.386	P=0.173	(e)
HISTCONT SAME RTE	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
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 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

All Organs
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated

TUMOR RATES	#	#	#
OVERALL (a)	9/50 (18%)	10/50 (20%)	15/50 (30%)
POLY-3 RATE (b)	9/44.71	10/47.67	15/45.05
POLY-3 PERCENT (g)	20.1%	21%	33.3%
TERMINAL (d)	3/29 (10%)	4/36 (11%)	5/28 (18%)
FIRST INCIDENCE	528	486	449
HC TUMORS SAME RTE	21/100 (21%)		
HC TUMORS ALL RTES	528/1349 (39%)		

STATISTICAL TESTS

POLY 3	P=0.094	P=0.562	P=0.119
POLY 1.5	P=0.088	P=0.534	P=0.111
POLY 6	P=0.100	P=0.594	P=0.128
COCH-ARM / FISHERS	P=0.094	P=0.500	P=0.121
MAX-ISO-POLY-3	P=0.103	P=0.460	P=0.078
HISTCONT SAME RTE	P=0.140	P=0.611	P=0.109
HISTCONT ALL RTES	P=0.116	P=0.581	P=0.089

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
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 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**All Organs
 Mesothelioma: Benign, Malignant, NOS**

TUMOR RATES	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	2/42.95	1/45.2	2/42.1
POLY-3 PERCENT (g)	4.7%	2.2%	4.8%
TERMINAL (d)	1/29 (3%)	1/36 (3%)	1/28 (4%)
FIRST INCIDENCE	667	729 (T)	666
HC TUMORS SAME RTE	7/100 (7%)		
HC TUMORS ALL RTES	49/1349 (4%)		

STATISTICAL TESTS

POLY 3	P=0.605	P=0.482N	P=0.687
POLY 1.5	P=0.604	P=0.491N	P=0.685
POLY 6	P=0.605	P=0.471N	P=0.687
COCH-ARM / FISHERS	P=0.610	P=0.500N	P=0.691N
MAX-ISO-POLY-3	P=0.516	P=0.270N	P=0.491
HISTCONT SAME RTE	P=0.657	P=1.000	P=0.645
HISTCONT ALL RTES	P=0.624	P=1.000	P=0.572

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**All Organs
 Mesothelioma: Malignant**

TUMOR RATES	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/42.95	1/45.2	1/42.1
POLY-3 PERCENT (g)	4.7%	2.2%	2.4%
TERMINAL (d)	1/29 (3%)	1/36 (3%)	0/28 (0%)
FIRST INCIDENCE	667	729 (T)	666
HC TUMORS SAME RTE	7/100 (7%)		
HC TUMORS ALL RTES	49/1349 (4%)		

STATISTICAL TESTS

POLY 3	P=0.385N	P=0.482N	P=0.507N
POLY 1.5	P=0.387N	P=0.491N	P=0.509N
POLY 6	P=0.385N	P=0.471N	P=0.507N
COCH-ARM / FISHERS	P=0.378N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.375N	P=0.270N	P=0.288N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

All Organs
 Osteosarcoma or Osteoma

TUMOR RATES	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/43.44	0/45.2	2/43.13
POLY-3 PERCENT (g)	2.3%	0%	4.6%
TERMINAL (d)	0/29 (0%)	0/36 (0%)	0/28 (0%)
FIRST INCIDENCE	474	---	486
HC TUMORS SAME RTE	2/100 (2%)		
HC TUMORS ALL RTES	13/1349 (1%)		

STATISTICAL TESTS

POLY 3	P=0.360	P=0.492N	P=0.498
POLY 1.5	P=0.360	P=0.496N	P=0.494
POLY 6	P=0.360	P=0.486N	P=0.500
COCH-ARM / FISHERS	P=0.360	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.194	P=0.158N	P=0.279
HISTCONT SAME RTE	P=0.263	(e)	P=0.308
HISTCONT ALL RTES	P=0.155	(e)	P=0.121

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
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 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**All Organs
 Benign Tumors**

TUMOR RATES

	#	#	#
OVERALL (a)	49/50 (98%)	47/50 (94%)	47/50 (94%)
POLY-3 RATE (b)	49/49.28	47/48.34	47/47.23
POLY-3 PERCENT (g)	99.4%	97.2%	99.5%
TERMINAL (d)	29/29 (100%)	35/36 (97%)	28/28 (100%)
FIRST INCIDENCE	429	544	486
HC TUMORS SAME RTE	97/100 (97%)		
HC TUMORS ALL RTES	1313/1349 (97%)		

STATISTICAL TESTS

POLY 3	P=0.714N	P=0.469N	P=0.996
POLY 1.5	P=0.670N	P=0.421N	P=0.915
POLY 6	P=0.728N	P=0.490N	P=1.000
COCH-ARM / FISHERS	P=0.238N	P=0.309N	P=0.309N
MAX-ISO-POLY-3	P=0.378	P=0.160N	P=0.466
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**All Organs
 Malignant Tumors**

TUMOR RATES	#	#	#
OVERALL (a)	23/50 (46%)	22/50 (44%)	23/50 (46%)
POLY-3 RATE (b)	23/47.93	22/48.66	23/46.25
POLY-3 PERCENT (g)	48%	45.2%	49.7%
TERMINAL (d)	8/29 (28%)	10/36 (28%)	9/28 (32%)
FIRST INCIDENCE	429	486	449
HC TUMORS SAME RTE	50/100 (50%)		
HC TUMORS ALL RTES	788/1349 (58%)		

STATISTICAL TESTS

POLY 3	P=0.478	P=0.472N	P=0.515
POLY 1.5	P=0.476	P=0.491N	P=0.513
POLY 6	P=0.477	P=0.445N	P=0.513
COCH-ARM / FISHERS	P=0.540	P=0.500N	P=0.579N
MAX-ISO-POLY-3	P=0.524	P=0.391N	P=0.432
HISTCONT SAME RTE	P=0.665	P=1.000	P=0.580
HISTCONT ALL RTES	P=0.635	P=1.000	P=0.548

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males		
	0 G/KG	0.25 G/KG	0.5 G/KG

**All Organs
 Malignant and Benign Tumors**

TUMOR RATES	#	#	#
OVERALL (a)	50/50 (100%)	49/50 (98%)	48/50 (96%)
POLY-3 RATE (b)	50/50	49/49.05	48/48
POLY-3 PERCENT (g)	100%	99.9%	100%
TERMINAL (d)	29/29 (100%)	36/36 (100%)	28/28 (100%)
FIRST INCIDENCE	429	486	449
HC TUMORS SAME RTE	100/100 (100%)		
HC TUMORS ALL RTES	1342/1349 (100%)		

STATISTICAL TESTS

POLY 3	P=1.000N	P=1.000N	P=1.000N
POLY 1.5	P=0.998N	P=1.000N	P=1.000N
POLY 6	P=1.000N	P=1.000N	P=0.247N
COCH-ARM / FISHERS	P=0.142N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.381N	P=0.161N	P=0.148N
HISTCONT SAME RTE	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Adrenal Medulla
 Pheochromocytoma Benign**

TUMOR RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/41.3	0/41.64	0/39.36	0/41.89
POLY-3 PERCENT (g)	2.4%	0%	0%	0%
TERMINAL (d)	1/31 (3%)	0/33 (0%)	0/28 (0%)	0/33 (0%)
FIRST INCIDENCE	730 (T)	---	---	---
HC TUMORS SAME RTE	3/100 (3%)			
HC TUMORS ALL RTES	29/1240 (2%)			

STATISTICAL TESTS

POLY 3	P=0.311N	P=0.498N	P=0.510N	P=0.497N
POLY 1.5	P=0.306N	P=0.500N	P=0.506N	P=0.502N
POLY 6	P=0.315N	P=0.496N	P=0.513N	P=0.491N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.123N	P=0.158N	P=0.170N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Adrenal Medulla
 Pheochromocytoma Malignant**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.3	0/41.64	0/39.36	0/41.89
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/33 (0%)	0/28 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	1/100 (1%)			
HC TUMORS ALL RTES	11/1240 (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. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Adrenal Medulla
 Pheochromocytoma: Benign, Complex, Malignant, NOS**

TUMOR RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/41.3	0/41.64	0/39.36	0/41.89
POLY-3 PERCENT (g)	2.4%	0%	0%	0%
TERMINAL (d)	1/31 (3%)	0/33 (0%)	0/28 (0%)	0/33 (0%)
FIRST INCIDENCE	730 (T)	---	---	---
HC TUMORS SAME RTE	4/100 (4%)			
HC TUMORS ALL RTES	42/1240 (3%)			

STATISTICAL TESTS

POLY 3	P=0.311N	P=0.498N	P=0.510N	P=0.497N
POLY 1.5	P=0.306N	P=0.500N	P=0.506N	P=0.502N
POLY 6	P=0.315N	P=0.496N	P=0.513N	P=0.491N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.123N	P=0.158N	P=0.170N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Bone				
Osteosarcoma or Osteoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.3	0/41.64	0/39.36	0/41.89
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/33 (0%)	0/28 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	0/100 (0%)			
HC TUMORS ALL RTES	6/1250 (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. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Clitoral/Preputial Gland
 Adenoma**

TUMOR RATES

OVERALL (a)	7/50 (14%)	2/50 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	7/41.7	2/41.64	2/39.36	1/42.14
POLY-3 PERCENT (g)	16.8%	4.8%	5.1%	2.4%
TERMINAL (d)	5/31 (16%)	2/33 (6%)	2/28 (7%)	0/33 (0%)
FIRST INCIDENCE	670	730 (T)	730 (T)	663
HC TUMORS SAME RTE	8/98 (8%)			
HC TUMORS ALL RTEs	106/1241 (9%)			

STATISTICAL TESTS

POLY 3	P=0.020N*	P=0.077N	P=0.091N	P=0.028N*
POLY 1.5	P=0.021N*	P=0.079N	P=0.087N	P=0.031N*
POLY 6	P=0.019N*	P=0.075N	P=0.097N	P=0.025N*
COCH-ARM / FISHERS	P=0.022N*	P=0.080N	P=0.080N	P=0.030N*
MAX-ISO-POLY-3	P=0.007N**	P=0.037N*	P=0.050N*	P=0.011N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Clitoral/Preputial Gland
 Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	7/50 (14%)	2/50 (4%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	7/41.7	2/41.64	3/39.7	1/42.14
POLY-3 PERCENT (g)	16.8%	4.8%	7.6%	2.4%
TERMINAL (d)	5/31 (16%)	2/33 (6%)	2/28 (7%)	0/33 (0%)
FIRST INCIDENCE	670	730 (T)	637	663
HC TUMORS SAME RTE	12/98 (12%)			
HC TUMORS ALL RTES	145/1241 (12%)			

STATISTICAL TESTS

POLY 3	P=0.027N*	P=0.077N	P=0.175N	P=0.028N*
POLY 1.5	P=0.029N*	P=0.079N	P=0.170N	P=0.031N*
POLY 6	P=0.025N*	P=0.075N	P=0.182N	P=0.025N*
COCH-ARM / FISHERS	P=0.029N*	P=0.080N	P=0.159N	P=0.030N*
MAX-ISO-POLY-3	P=0.010N**	P=0.037N*	P=0.107N	P=0.011N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Islets, Pancreatic
 Adenoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/41.3	1/41.85	0/39.2	0/41.89
POLY-3 PERCENT (g)	2.4%	2.4%	0%	0%
TERMINAL (d)	1/31 (3%)	0/33 (0%)	0/28 (0%)	0/33 (0%)
FIRST INCIDENCE	730 (T)	673	---	---
HC TUMORS SAME RTE	1/100 (1%)			
HC TUMORS ALL RTES	18/1239 (2%)			

STATISTICAL TESTS

POLY 3	P=0.238N	P=0.758N	P=0.510N	P=0.497N
POLY 1.5	P=0.239N	P=0.761N	P=0.508N	P=0.502N
POLY 6	P=0.238N	P=0.754N	P=0.513N	P=0.491N
COCH-ARM / FISHERS	P=0.236N	P=0.753N	P=0.505N	P=0.500N
MAX-ISO-POLY-3	P=0.256N	P=0.495N	P=0.170N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Islets, Pancreatic
 Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/41.3	1/41.85	0/39.2	0/41.89
POLY-3 PERCENT (g)	2.4%	2.4%	0%	0%
TERMINAL (d)	1/31 (3%)	0/33 (0%)	0/28 (0%)	0/33 (0%)
FIRST INCIDENCE	730 (T)	673	---	---
HC TUMORS SAME RTE	1/100 (1%)			
HC TUMORS ALL RTES	26/1239 (2%)			

STATISTICAL TESTS

POLY 3	P=0.238N	P=0.758N	P=0.510N	P=0.497N
POLY 1.5	P=0.239N	P=0.761N	P=0.508N	P=0.502N
POLY 6	P=0.238N	P=0.754N	P=0.513N	P=0.491N
COCH-ARM / FISHERS	P=0.236N	P=0.753N	P=0.505N	P=0.500N
MAX-ISO-POLY-3	P=0.256N	P=0.495N	P=0.170N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

Kidney: Renal Tubule
 Adenoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/41.3	1/41.64	0/39.36	2/41.89
POLY-3 PERCENT (g)	0%	2.4%	0%	4.8%
TERMINAL (d)	0/31 (0%)	1/33 (3%)	0/28 (0%)	2/33 (6%)
FIRST INCIDENCE	---	730 (T)	---	730 (T)
HC TUMORS SAME RTE	0/100 (0%)			
HC TUMORS ALL RTES	1/1244 (0%)			

STATISTICAL TESTS

POLY 3	P=0.140	P=0.502	(e)	P=0.240
POLY 1.5	P=0.137	P=0.500	(e)	P=0.234
POLY 6	P=0.144	P=0.504	(e)	P=0.247
COCH-ARM / FISHERS	P=0.140	P=0.500	(e)	P=0.247
MAX-ISO-POLY-3	P=0.081	P=0.160	(e)	P=0.079
HISTCONT SAME RTE	P=0.100	P=0.125	(e)	P=0.110
HISTCONT ALL RTES	P<0.001**	P=0.007**	(e)	P<0.001**

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Kidney: Renal Tubule
 Carcinoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.3	0/41.64	0/39.36	0/41.89
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/33 (0%)	0/28 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	1/100 (1%)			
HC TUMORS ALL RTES	1/1244 (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. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Kidney: Renal Tubule
 Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/41.3	1/41.64	0/39.36	2/41.89
POLY-3 PERCENT (g)	0%	2.4%	0%	4.8%
TERMINAL (d)	0/31 (0%)	1/33 (3%)	0/28 (0%)	2/33 (6%)
FIRST INCIDENCE	---	730 (T)	---	730 (T)
HC TUMORS SAME RTE	1/100 (1%)			
HC TUMORS ALL RTES	2/1244 (0%)			

STATISTICAL TESTS

POLY 3	P=0.140	P=0.502	(e)	P=0.240
POLY 1.5	P=0.137	P=0.500	(e)	P=0.234
POLY 6	P=0.144	P=0.504	(e)	P=0.247
COCH-ARM / FISHERS	P=0.140	P=0.500	(e)	P=0.247
MAX-ISO-POLY-3	P=0.081	P=0.160	(e)	P=0.079
HISTCONT SAME RTE	P=0.109	P=0.226	(e)	P=0.110
HISTCONT ALL RTES	P<0.001**	P=0.023*	(e)	P=0.002**

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Lung
 Alveolar/Bronchiolar Adenoma**

TUMOR RATES

OVERALL (a)	4/50 (8%)	3/50 (6%)	2/49 (4%)	1/50 (2%)
POLY-3 RATE (b)	4/41.3	3/41.64	2/40.14	1/41.89
POLY-3 PERCENT (g)	9.7%	7.2%	5%	2.4%
TERMINAL (d)	4/31 (13%)	3/33 (9%)	1/28 (4%)	1/33 (3%)
FIRST INCIDENCE	730 (T)	730 (T)	283	730 (T)
HC TUMORS SAME RTE	4/100 (4%)			
HC TUMORS ALL RTES	21/1249 (2%)			

STATISTICAL TESTS

POLY 3	P=0.112N	P=0.496N	P=0.350N	P=0.173N
POLY 1.5	P=0.117N	P=0.501N	P=0.348N	P=0.182N
POLY 6	P=0.107N	P=0.489N	P=0.353N	P=0.164N
COCH-ARM / FISHERS	P=0.115N	P=0.500N	P=0.349N	P=0.181N
MAX-ISO-POLY-3	P=0.131N	P=0.343N	P=0.212N	P=0.082N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Lung
 Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma**

TUMOR RATES

OVERALL (a)	4/50 (8%)	4/50 (8%)	2/49 (4%)	2/50 (4%)
POLY-3 RATE (b)	4/41.3	4/41.64	2/40.14	2/41.89
POLY-3 PERCENT (g)	9.7%	9.6%	5%	4.8%
TERMINAL (d)	4/31 (13%)	4/33 (12%)	1/28 (4%)	2/33 (6%)
FIRST INCIDENCE	730 (T)	730 (T)	283	730 (T)
HC TUMORS SAME RTE	4/100 (4%)			
HC TUMORS ALL RTES	29/1249 (2%)			

STATISTICAL TESTS

POLY 3	P=0.208N	P=0.640N	P=0.350N	P=0.330N
POLY 1.5	P=0.216N	P=0.643	P=0.348N	P=0.342N
POLY 6	P=0.199N	P=0.633N	P=0.353N	P=0.316N
COCH-ARM / FISHERS	P=0.212N	P=0.643N	P=0.349N	P=0.339N
MAX-ISO-POLY-3	P=0.317N	P=0.494N	P=0.212N	P=0.196N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.3	2/41.88	0/39.36	0/41.89
POLY-3 PERCENT (g)	0%	4.8%	0%	0%
TERMINAL (d)	0/31 (0%)	1/33 (3%)	0/28 (0%)	0/33 (0%)
FIRST INCIDENCE	---	666	---	---
HC TUMORS SAME RTE	6/100 (6%)			
HC TUMORS ALL RTES	76/1250 (6%)			

STATISTICAL TESTS

POLY 3	P=0.403N	P=0.240	(e)	(e)
POLY 1.5	P=0.409N	P=0.237	(e)	(e)
POLY 6	P=0.397N	P=0.244	(e)	(e)
COCH-ARM / FISHERS	P=0.405N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.254N	P=0.079	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTES	(h)	(h)	(e)	(e)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	17/50 (34%)	20/50 (40%)	12/50 (24%)	7/50 (14%)
POLY-3 RATE (b)	17/41.69	20/43.54	12/40.24	7/42.8
POLY-3 PERCENT (g)	40.8%	45.9%	29.8%	16.4%
TERMINAL (d)	15/31 (48%)	15/33 (46%)	8/28 (29%)	4/33 (12%)
FIRST INCIDENCE	670	462	595	578
HC TUMORS SAME RTE	48/100 (48%)			
HC TUMORS ALL RTEs	655/1250 (52%)			

STATISTICAL TESTS

POLY 3	P=0.002N**	P=0.395	P=0.207N	P=0.010N**
POLY 1.5	P=0.003N**	P=0.360	P=0.203N	P=0.014N*
POLY 6	P<0.001N**	P=0.443	P=0.207N	P=0.007N**
COCH-ARM / FISHERS	P=0.004N**	P=0.339	P=0.189N	P=0.017N*
MAX-ISO-POLY-3	P=0.003N**	P=0.317	P=0.150N	P=0.005N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Mammary Gland Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	17/50 (34%)	21/50 (42%)	12/50 (24%)	7/50 (14%)
POLY-3 RATE (b)	17/41.69	21/43.54	12/40.24	7/42.8
POLY-3 PERCENT (g)	40.8%	48.2%	29.8%	16.4%
TERMINAL (d)	15/31 (48%)	16/33 (49%)	8/28 (29%)	4/33 (12%)
FIRST INCIDENCE	670	462	595	578
HC TUMORS SAME RTE	52/100 (52%)			
HC TUMORS ALL RTEs	707/1250 (57%)			

STATISTICAL TESTS

POLY 3	P<0.001N**	P=0.315	P=0.207N	P=0.010N**
POLY 1.5	P=0.002N**	P=0.284	P=0.203N	P=0.014N*
POLY 6	P<0.001N**	P=0.359	P=0.207N	P=0.007N**
COCH-ARM / FISHERS	P=0.003N**	P=0.268	P=0.189N	P=0.017N*
MAX-ISO-POLY-3	P=0.002N**	P=0.246	P=0.150N	P=0.005N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva)
 Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma**

TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/41.3	0/41.64	0/39.36	0/41.89
POLY-3 PERCENT (g)	4.8%	0%	0%	0%
TERMINAL (d)	2/31 (7%)	0/33 (0%)	0/28 (0%)	0/33 (0%)
FIRST INCIDENCE	730 (T)	---	---	---
HC TUMORS SAME RTE	1/100 (1%)			
HC TUMORS ALL RTES	12/1250 (1%)			

STATISTICAL TESTS

POLY 3	P=0.116N	P=0.235N	P=0.248N	P=0.234N
POLY 1.5	P=0.114N	P=0.237N	P=0.244N	P=0.240N
POLY 6	P=0.118N	P=0.232N	P=0.251N	P=0.227N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.032N*	P=0.076N	P=0.086N	P=0.076N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Pancreas				
Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.3	0/41.64	0/39.2	0/41.89
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/33 (0%)	0/28 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	1/100 (1%)			
HC TUMORS ALL RTES	6/1240 (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. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Pituitary Gland: Pars Distalis or Unspecified Site
 Adenoma**

TUMOR RATES

OVERALL (a)	25/50 (50%)	22/50 (44%)	13/50 (26%)	15/50 (30%)
POLY-3 RATE (b)	25/44.25	22/43.35	13/41.36	15/42.9
POLY-3 PERCENT (g)	56.5%	50.8%	31.4%	35%
TERMINAL (d)	19/31 (61%)	16/33 (49%)	7/28 (25%)	10/33 (30%)
FIRST INCIDENCE	330	548	595	588
HC TUMORS SAME RTE	44/100 (44%)			
HC TUMORS ALL RTEs	660/1241 (53%)			

STATISTICAL TESTS

POLY 3	P=0.013N*	P=0.371N	P=0.014N*	P=0.032N*
POLY 1.5	P=0.015N*	P=0.379N	P=0.013N*	P=0.039N*
POLY 6	P=0.010N**	P=0.343N	P=0.013N*	P=0.024N*
COCH-ARM / FISHERS	P=0.014N*	P=0.344N	P=0.011N*	P=0.033N*
MAX-ISO-POLY-3	P=0.019N*	P=0.294N	P=0.009N**	P=0.021N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Skin
 Basal Cell Adenoma, Basosquamous Tumor Benign, or Trichoepithelioma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/41.3	0/41.64	0/39.36	0/41.89
POLY-3 PERCENT (g)	2.4%	0%	0%	0%
TERMINAL (d)	1/31 (3%)	0/33 (0%)	0/28 (0%)	0/33 (0%)
FIRST INCIDENCE	730 (T)	---	---	---
HC TUMORS SAME RTE	0/100 (0%)			
HC TUMORS ALL RTES	9/1250 (1%)			

STATISTICAL TESTS

POLY 3	P=0.311N	P=0.498N	P=0.510N	P=0.497N
POLY 1.5	P=0.306N	P=0.500N	P=0.506N	P=0.502N
POLY 6	P=0.315N	P=0.496N	P=0.513N	P=0.491N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.123N	P=0.158N	P=0.170N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

Skin
 Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/41.3	0/41.64	1/39.36	0/41.89
POLY-3 PERCENT (g)	2.4%	0%	2.5%	0%
TERMINAL (d)	1/31 (3%)	0/33 (0%)	1/28 (4%)	0/33 (0%)
FIRST INCIDENCE	730 (T)	---	730 (T)	---
HC TUMORS SAME RTE	0/100 (0%)			
HC TUMORS ALL RTES	13/1250 (1%)			

STATISTICAL TESTS

POLY 3	P=0.405N	P=0.498N	P=0.750	P=0.497N
POLY 1.5	P=0.408N	P=0.500N	P=0.754	P=0.502N
POLY 6	P=0.402N	P=0.496N	P=0.747	P=0.491N
COCH-ARM / FISHERS	P=0.405N	P=0.500N	P=0.753N	P=0.500N
MAX-ISO-POLY-3	P=0.255N	P=0.158N	P=0.486	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

Skin
 Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/41.3	1/41.64	1/39.36	0/41.89
POLY-3 PERCENT (g)	2.4%	2.4%	2.5%	0%
TERMINAL (d)	1/31 (3%)	1/33 (3%)	1/28 (4%)	0/33 (0%)
FIRST INCIDENCE	730 (T)	730 (T)	730 (T)	---
HC TUMORS SAME RTE	1/100 (1%)			
HC TUMORS ALL RTES	24/1250 (2%)			

STATISTICAL TESTS

POLY 3	P=0.311N	P=0.759N	P=0.750	P=0.497N
POLY 1.5	P=0.316N	P=0.760	P=0.754	P=0.502N
POLY 6	P=0.306N	P=0.757N	P=0.747	P=0.491N
COCH-ARM / FISHERS	P=0.311N	P=0.753N	P=0.753N	P=0.500N
MAX-ISO-POLY-3	P=0.329N	P=0.497N	P=0.486	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Skin				
Fibroma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/41.58	0/41.64	1/39.36	0/41.89
POLY-3 PERCENT (g)	4.8%	0%	2.5%	0%
TERMINAL (d)	1/31 (3%)	0/33 (0%)	1/28 (4%)	0/33 (0%)
FIRST INCIDENCE	656	---	730 (T)	---
HC TUMORS SAME RTE	2/100 (2%)			
HC TUMORS ALL RTES	22/1250 (2%)			

STATISTICAL TESTS

POLY 3	P=0.188N	P=0.236N	P=0.519N	P=0.235N
POLY 1.5	P=0.190N	P=0.238N	P=0.513N	P=0.240N
POLY 6	P=0.187N	P=0.235N	P=0.527N	P=0.230N
COCH-ARM / FISHERS	P=0.188N	P=0.247N	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.077N	P=0.076N	P=0.301N	P=0.076N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Skin
 Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	3/41.66	0/41.64	1/39.36	0/41.89
POLY-3 PERCENT (g)	7.2%	0%	2.5%	0%
TERMINAL (d)	1/31 (3%)	0/33 (0%)	1/28 (4%)	0/33 (0%)
FIRST INCIDENCE	656	---	730 (T)	---
HC TUMORS SAME RTE	2/100 (2%)			
HC TUMORS ALL RTES	31/1250 (3%)			

STATISTICAL TESTS

POLY 3	P=0.085N	P=0.118N	P=0.325N	P=0.117N
POLY 1.5	P=0.085N	P=0.120N	P=0.318N	P=0.121N
POLY 6	P=0.084N	P=0.117N	P=0.334N	P=0.113N
COCH-ARM / FISHERS	P=0.086N	P=0.121N	P=0.309N	P=0.121N
MAX-ISO-POLY-3	P=0.023N*	P=0.038N*	P=0.174N	P=0.038N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Skin
 Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/41.39	0/41.64	0/39.36	0/41.89
POLY-3 PERCENT (g)	2.4%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/33 (0%)	0/28 (0%)	0/33 (0%)
FIRST INCIDENCE	708	---	---	---
HC TUMORS SAME RTE	0/100 (0%)			
HC TUMORS ALL RTES	9/1250 (1%)			

STATISTICAL TESTS

POLY 3	P=0.310N	P=0.499N	P=0.510N	P=0.498N
POLY 1.5	P=0.306N	P=0.501N	P=0.507N	P=0.503N
POLY 6	P=0.315N	P=0.497N	P=0.514N	P=0.492N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.123N	P=0.158N	P=0.171N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Skin				
Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.3	1/41.64	0/39.36	0/41.89
POLY-3 PERCENT (g)	0%	2.4%	0%	0%
TERMINAL (d)	0/31 (0%)	1/33 (3%)	0/28 (0%)	0/33 (0%)
FIRST INCIDENCE	---	730 (T)	---	---
HC TUMORS SAME RTE	1/100 (1%)			
HC TUMORS ALL RTES	8/1250 (1%)			

STATISTICAL TESTS

POLY 3	P=0.569N	P=0.502	(e)	(e)
POLY 1.5	P=0.570N	P=0.500	(e)	(e)
POLY 6	P=0.566N	P=0.504	(e)	(e)
COCH-ARM / FISHERS	P=0.567N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.389N	P=0.160	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTES	(h)	(h)	(e)	(e)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Skin				
Lipoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	0/41.3	1/41.64	3/39.36	0/41.89
POLY-3 PERCENT (g)	0%	2.4%	7.6%	0%
TERMINAL (d)	0/31 (0%)	1/33 (3%)	3/28 (11%)	0/33 (0%)
FIRST INCIDENCE	---	730 (T)	730 (T)	---
HC TUMORS SAME RTE	0/100 (0%)			
HC TUMORS ALL RTES	2/1250 (0%)			

STATISTICAL TESTS

POLY 3	P=0.627N	P=0.502	P=0.110	(e)
POLY 1.5	P=0.629	P=0.500	P=0.113	(e)
POLY 6	P=0.613N	P=0.504	P=0.107	(e)
COCH-ARM / FISHERS	P=0.634	P=0.500	P=0.121	(e)
MAX-ISO-POLY-3	P=0.218	P=0.160	P=0.037*	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(e)
HISTCONT ALL RTES	(h)	(h)	(h)	(e)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Thyroid Gland: C-Cell
 Adenoma**

TUMOR RATES

OVERALL (a)	5/50 (10%)	13/49 (27%)	4/49 (8%)	4/50 (8%)
POLY-3 RATE (b)	5/41.65	13/42.04	4/39.47	4/41.89
POLY-3 PERCENT (g)	12%	30.9%	10.1%	9.6%
TERMINAL (d)	3/31 (10%)	9/33 (27%)	2/28 (7%)	4/33 (12%)
FIRST INCIDENCE	661	651	673	730 (T)
HC TUMORS SAME RTE	19/100 (19%)			
HC TUMORS ALL RTES	153/1231 (12%)			

STATISTICAL TESTS

POLY 3	P=0.133N	P=0.030*	P=0.534N	P=0.496N
POLY 1.5	P=0.144N	P=0.028*	P=0.527N	P=0.510N
POLY 6	P=0.123N	P=0.034*	P=0.542N	P=0.482N
COCH-ARM / FISHERS	P=0.142N	P=0.030*	P=0.513N	P=0.500N
MAX-ISO-POLY-3	P=0.098N	P=0.017*	P=0.395N	P=0.359N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Thyroid Gland: Follicular Cell
 Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	2/49 (4%)	0/49 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/41.3	2/41.13	0/39.2	1/41.89
POLY-3 PERCENT (g)	0%	4.9%	0%	2.4%
TERMINAL (d)	0/31 (0%)	2/33 (6%)	0/28 (0%)	1/33 (3%)
FIRST INCIDENCE	---	730 (T)	---	730 (T)
HC TUMORS SAME RTE	0/100 (0%)			
HC TUMORS ALL RTES	6/1231 (1%)			

STATISTICAL TESTS

POLY 3	P=0.545	P=0.236	(e)	P=0.503
POLY 1.5	P=0.535	P=0.233	(e)	P=0.498
POLY 6	P=0.556	P=0.240	(e)	P=0.509
COCH-ARM / FISHERS	P=0.540	P=0.242	(e)	P=0.500
MAX-ISO-POLY-3	P=0.328	P=0.076	(e)	P=0.162
HISTCONT SAME RTE	P=0.421	P=0.106	(e)	P=0.124
HISTCONT ALL RTES	P=0.255	P=0.019*	(e)	P=0.173

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

Thyroid Gland: Follicular Cell
 Carcinoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/49 (0%)	1/49 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.3	0/41.13	1/39.2	0/41.89
POLY-3 PERCENT (g)	0%	0%	2.6%	0%
TERMINAL (d)	0/31 (0%)	0/33 (0%)	1/28 (4%)	0/33 (0%)
FIRST INCIDENCE	---	---	730 (T)	---
HC TUMORS SAME RTE	2/100 (2%)			
HC TUMORS ALL RTES	9/1231 (1%)			

STATISTICAL TESTS

POLY 3	P=0.700	(e)	P=0.490	(e)
POLY 1.5	P=0.690	(e)	P=0.492	(e)
POLY 6	P=0.711	(e)	P=0.487	(e)
COCH-ARM / FISHERS	P=0.694	(e)	P=0.495	(e)
MAX-ISO-POLY-3	P=0.383	(e)	P=0.157	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**Thyroid Gland: Follicular Cell
 Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	2/49 (4%)	1/49 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/41.3	2/41.13	1/39.2	1/41.89
POLY-3 PERCENT (g)	0%	4.9%	2.6%	2.4%
TERMINAL (d)	0/31 (0%)	2/33 (6%)	1/28 (4%)	1/33 (3%)
FIRST INCIDENCE	---	730 (T)	730 (T)	730 (T)
HC TUMORS SAME RTE	2/100 (2%)			
HC TUMORS ALL RTES	14/1231 (1%)			

STATISTICAL TESTS

POLY 3	P=0.507	P=0.236	P=0.490	P=0.503
POLY 1.5	P=0.495	P=0.233	P=0.492	P=0.498
POLY 6	P=0.521	P=0.240	P=0.487	P=0.509
COCH-ARM / FISHERS	P=0.501	P=0.242	P=0.495	P=0.500
MAX-ISO-POLY-3	P=0.272	P=0.076	P=0.157	P=0.162
HISTCONT SAME RTE	P=0.360	P=0.106	P=0.221	P=0.228
HISTCONT ALL RTES	P=0.315	P=0.075	P=0.187	P=0.193

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Uterus				
Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	8/50 (16%)	3/50 (6%)	13/50 (26%)	6/50 (12%)
POLY-3 RATE (b)	8/43	3/41.64	13/42.01	6/41.89
POLY-3 PERCENT (g)	18.6%	7.2%	30.9%	14.3%
TERMINAL (d)	5/31 (16%)	3/33 (9%)	7/28 (25%)	6/33 (18%)
FIRST INCIDENCE	330	730 (T)	366	730 (T)
HC TUMORS SAME RTE	22/100 (22%)			
HC TUMORS ALL RTES	228/1250 (18%)			

STATISTICAL TESTS

POLY 3	P=0.512	P=0.107N	P=0.141	P=0.406N
POLY 1.5	P=0.497	P=0.106N	P=0.146	P=0.416N
POLY 6	P=0.530	P=0.107N	P=0.139	P=0.395N
COCH-ARM / FISHERS	P=0.527	P=0.100N	P=0.163	P=0.387N
MAX-ISO-POLY-3	P=0.192	P=0.061N	P=0.094	P=0.301N
HISTCONT SAME RTE	P=0.258	P=1.000	P=0.132	P=1.000
HISTCONT ALL RTES	P=0.222	P=1.000	P=0.108	P=1.000

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Uterus				
Sarcoma Stromal or Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	8/50 (16%)	4/50 (8%)	13/50 (26%)	7/50 (14%)
POLY-3 RATE (b)	8/43	4/42.46	13/42.01	7/41.89
POLY-3 PERCENT (g)	18.6%	9.4%	30.9%	16.7%
TERMINAL (d)	5/31 (16%)	3/33 (9%)	7/28 (25%)	7/33 (21%)
FIRST INCIDENCE	330	408	366	730 (T)
HC TUMORS SAME RTE	22/100 (22%)			
HC TUMORS ALL RTEs	236/1250 (19%)			

STATISTICAL TESTS

POLY 3	P=0.421	P=0.181N	P=0.141	P=0.522N
POLY 1.5	P=0.410	P=0.183N	P=0.146	P=0.532N
POLY 6	P=0.436	P=0.178N	P=0.139	P=0.511N
COCH-ARM / FISHERS	P=0.448	P=0.178N	P=0.163	P=0.500N
MAX-ISO-POLY-3	P=0.199	P=0.111N	P=0.094	P=0.409N
HISTCONT SAME RTE	P=0.266	P=1.000	P=0.132	P=1.000
HISTCONT ALL RTEs	P=0.229	P=1.000	P=0.108	P=1.000

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Zymbal's Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/41.3	0/41.64	0/39.36	2/42.29
POLY-3 PERCENT (g)	0%	0%	0%	4.7%
TERMINAL (d)	0/31 (0%)	0/33 (0%)	0/28 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	672
HC TUMORS SAME RTE	0/100 (0%)			
HC TUMORS ALL RTES	6/1250 (1%)			

STATISTICAL TESTS

POLY 3	P=0.046*	(e)	(e)	P=0.242
POLY 1.5	P=0.045*	(e)	(e)	P=0.235
POLY 6	P=0.047*	(e)	(e)	P=0.251
COCH-ARM / FISHERS	P=0.046*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.036*	(e)	(e)	P=0.081
HISTCONT SAME RTE	P=0.049*	(e)	(e)	P=0.113
HISTCONT ALL RTES	P=0.028*	(e)	(e)	P=0.022*

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

All Organs
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated

TUMOR RATES	#	#	#	#
OVERALL (a)	5/50 (10%)	8/50 (16%)	4/50 (8%)	11/50 (22%)
POLY-3 RATE (b)	5/42.21	8/42.26	4/41.11	11/43.9
POLY-3 PERCENT (g)	11.9%	18.9%	9.7%	25.1%
TERMINAL (d)	2/31 (7%)	6/33 (18%)	0/28 (0%)	6/33 (18%)
FIRST INCIDENCE	619	581	371	225
HC TUMORS SAME RTE	18/100 (18%)			
HC TUMORS ALL RTES	316/1250 (25%)			

STATISTICAL TESTS

POLY 3	P=0.090	P=0.274	P=0.517N	P=0.095
POLY 1.5	P=0.083	P=0.271	P=0.511N	P=0.085
POLY 6	P=0.098	P=0.277	P=0.526N	P=0.105
COCH-ARM / FISHERS	P=0.084	P=0.277	P=0.500N	P=0.086
MAX-ISO-POLY-3	P=0.078	P=0.184	P=0.379N	P=0.059
HISTCONT SAME RTE	P=0.105	P=0.259	P=1.000	P=0.082
HISTCONT ALL RTES	P=0.088	P=0.221	P=1.000	P=0.066

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**All Organs
 Mesothelioma: Benign, Malignant, NOS**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/42.2	0/41.64	0/39.36	0/41.89
POLY-3 PERCENT (g)	2.4%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/33 (0%)	0/28 (0%)	0/33 (0%)
FIRST INCIDENCE	346	---	---	---
HC TUMORS SAME RTE	1/100 (1%)			
HC TUMORS ALL RTES	4/1250 (0%)			

STATISTICAL TESTS

POLY 3	P=0.308N	P=0.503N	P=0.514N	P=0.501N
POLY 1.5	P=0.304N	P=0.503N	P=0.509N	P=0.505N
POLY 6	P=0.312N	P=0.501N	P=0.518N	P=0.496N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.126N	P=0.162N	P=0.175N	P=0.160N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**All Organs
 Mesothelioma: Malignant**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/42.2	0/41.64	0/39.36	0/41.89
POLY-3 PERCENT (g)	2.4%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/33 (0%)	0/28 (0%)	0/33 (0%)
FIRST INCIDENCE	346	---	---	---
HC TUMORS SAME RTE	1/100 (1%)			
HC TUMORS ALL RTES	3/1250 (0%)			

STATISTICAL TESTS

POLY 3	P=0.308N	P=0.503N	P=0.514N	P=0.501N
POLY 1.5	P=0.304N	P=0.503N	P=0.509N	P=0.505N
POLY 6	P=0.312N	P=0.501N	P=0.518N	P=0.496N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.126N	P=0.162N	P=0.175N	P=0.160N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG

**All Organs
 Osteosarcoma or Osteoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.3	0/41.64	0/39.36	0/41.89
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/33 (0%)	0/28 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME RTE	0/100 (0%)			
HC TUMORS ALL RTES	6/1250 (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. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	40/50 (80%)	39/50 (78%)	35/50 (70%)	27/50 (54%)
POLY-3 RATE (b)	40/45.57	39/44.84	35/44.9	27/43.66
POLY-3 PERCENT (g)	87.8%	87%	78%	61.9%
TERMINAL (d)	29/31 (94%)	30/33 (91%)	21/28 (75%)	20/33 (61%)
FIRST INCIDENCE	330	462	283	578
HC TUMORS SAME RTE	86/100 (86%)			
HC TUMORS ALL RTES	1079/1250 (86%)			

STATISTICAL TESTS

POLY 3	P<0.001N**	P=0.587N	P=0.150N	P=0.003N**
POLY 1.5	P<0.001N**	P=0.593N	P=0.162N	P=0.004N**
POLY 6	P<0.001N**	P=0.552N	P=0.128N	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.500N	P=0.178N	P=0.005N**
MAX-ISO-POLY-3	P<0.001N**	P=0.449N	P=0.092N	P<0.001N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
 Time Report Requested: 07:27:16
 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	11/50 (22%)	14/50 (28%)	10/50 (20%)	17/50 (34%)
POLY-3 RATE (b)	11/45.03	14/43.78	10/41.68	17/44.85
POLY-3 PERCENT (g)	24.4%	32%	24%	37.9%
TERMINAL (d)	4/31 (13%)	9/33 (27%)	4/28 (14%)	9/33 (27%)
FIRST INCIDENCE	291	408	371	225
HC TUMORS SAME RTE	36/100 (36%)			
HC TUMORS ALL RTES	519/1250 (42%)			

STATISTICAL TESTS

POLY 3	P=0.126	P=0.289	P=0.581N	P=0.123
POLY 1.5	P=0.117	P=0.288	P=0.559N	P=0.111
POLY 6	P=0.142	P=0.297	P=0.596N	P=0.141
COCH-ARM / FISHERS	P=0.138	P=0.322	P=0.500N	P=0.133
MAX-ISO-POLY-3	P=0.122	P=0.218	P=0.481N	P=0.082
HISTCONT SAME RTE	P=0.164	P=0.306	P=1.000	P=0.116
HISTCONT ALL RTES	P=0.139	P=0.265	P=1.000	P=0.094

TDMS No. 99023 - 03
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 beta-Myrcene
 CAS Number: 123-35-3

Date Report Requested: 04/10/2008
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 First Dose M/F: 03/25/02 / 03/26/02
 Lab: BAT

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
OVERALL (a)	45/50 (90%)	44/50 (88%)	39/50 (78%)	37/50 (74%)
POLY-3 RATE (b)	45/49.05	44/46.29	39/46.35	37/46.21
POLY-3 PERCENT (g)	91.7%	95.1%	84.2%	80.1%
TERMINAL (d)	29/31 (94%)	32/33 (97%)	22/28 (79%)	24/33 (73%)
FIRST INCIDENCE	291	408	283	225
HC TUMORS SAME RTE	94/100 (94%)			
HC TUMORS ALL RTES	1180/1250 (94%)			

STATISTICAL TESTS

POLY 3	P=0.018N*	P=0.397	P=0.192N	P=0.082N
POLY 1.5	P=0.024N*	P=0.453	P=0.161N	P=0.093N
POLY 6	P=0.011N*	P=0.407	P=0.192N	P=0.061N
COCH-ARM / FISHERS	P=0.013N*	P=0.500N	P=0.086N	P=0.033N*
MAX-ISO-POLY-3	P=0.027N*	P=0.247	P=0.121N	P=0.049N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)

TDMS No. 99023 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

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beta-Myrcene
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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 ***