

**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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 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
<b>Bone</b>			
<b>Osteosarcoma or Osteoma</b>			
<b>TUMOR RATES</b>	#	#	#
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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**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

---

**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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**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

---

**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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---

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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---

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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**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

---

**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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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

---

**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**

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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
<b>Mammary Gland Fibroadenoma</b>			
<b>TUMOR RATES</b>	#	#	#
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
<b>Skin Fibroma</b>			
<b>TUMOR RATES</b>	#	#	#
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**

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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
<b>Skin</b>			
<b>Lipoma</b>			
<b>TUMOR RATES</b>	#	#	#
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  
 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

---

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  
 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 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  
 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

---

**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  
 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**  
**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  
 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: 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  
 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  
 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)

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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

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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
<b>Bone</b>				
<b>Osteosarcoma or Osteoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
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**

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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
<b>Mammary Gland Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
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
<b>Mammary Gland Fibroadenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
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
<b>Mammary Gland Fibroma, Fibroadenoma, Carcinoma, or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
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
<b>Pancreas</b>				
<b>Adenoma</b>				
<b>TUMOR RATES</b>				
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
<b>Skin Fibroma</b>				
<b>TUMOR RATES</b>	#	#	#	#
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
<b>Skin</b>				
<b>Keratoacanthoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
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
<b>Skin</b>				
<b>Lipoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
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**

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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)

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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
<b>Uterus</b>				
<b>Polyp Stromal</b>				
<b>TUMOR RATES</b>	#	#	#	#
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
<b>Uterus</b>				
<b>Sarcoma Stromal or Polyp Stromal</b>				
<b>TUMOR RATES</b>	#	#	#	#
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
<b>Zymbal's Gland Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
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**

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

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

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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**

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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)

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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

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**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

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 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

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**All Organs  
 Osteosarcoma or Osteoma**

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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**

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

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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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 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
<b>All Organs</b>				
<b>Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
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
<b>All Organs</b>				
<b>Malignant Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
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  
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 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
<b>All Organs</b>				
<b>Malignant and Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
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

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 \*\*\*