

**TDMS No.** 88006-04  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
ALPHA-METHYLSTYRENE  
**CAS Number:** 98-83-9  
**Pathologist:** GRUMBEIN, S.  
Final 1 Mice

**Date Report Reqsted:** 07/28/2005  
**Time Report Reqsted:** 9:55:44  
**First Dose M/F:** 07/30/01 / 07/30/01  
**Lab:** BNW

**C Number:** C88006B  
**Lock Date:** 03/08/2004  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** JAN /1 /1940 - SEP /17 /2040  
**Treatment Groups:** Include 1 CONTROL  
Include 4 100 PPM  
Include 7 600 PPM

Include 2 CONTROL  
Include 5 300 PPM  
Include 8 600 PPM

Include 3 100 PPM  
Include 6 300 PPM

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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  
Clitoral/Preputial Gland  
Heart  
Islets, Pancreatic  
Kidney  
Liver  
Lung  
Ovary  
Pituitary Gland  
Spleen  
Testes  
Thyroid Gland

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## SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF ALPHA-METHYLSTYRENE

### MALE MICE

<u>Organ</u>	<u>Morphology</u>
Harderian Gland	Adenoma
Liver	Carcinoma or Adenoma Hemangiosarcoma Hepatocellular Carcinoma or Hepatocellular Adenoma Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma
All Organs	Hemangiosarcoma Hemangiosarcoma or Hemangioma Malignant and Benign Tumors

### FEMALE MICE

<u>Organ</u>	<u>Morphology</u>
Liver	Hepatocellular Adenoma Hepatocellular Carcinoma Hepatocellular Carcinoma or Hepatoblastoma Hepatocellular Carcinoma or Hepatocellular Adenoma Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma
Skin	Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma
All Organs	Sarcoma Hemangiosarcoma Hemangiosarcoma or Hemangioma Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type Benign Tumors

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM

Adrenal Medulla  
Pheochromocytoma Benign

TUMOR RATES

OVERALL (a)	0/50 (0%)	1/49 (2%)	0/49 (0%)	1/49 (2%)
POLY-3 RATE (b)	0/44.99	1/41.16	0/46.85	1/42.36
POLY-3 PERCENT (g)	0%	2.4%	0%	2.4%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/40 (0%)	1/36 (3%)
FIRST INCIDENCE	---	728	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.456	P=0.488	(e)	P=0.506
POLY 3	P=0.427	P=0.482	(e)	P=0.488
POLY 1.5	P=0.429	P=0.485	(e)	P=0.490
POLY 6	P=0.429	P=0.482	(e)	P=0.489
LOGISTIC REGRESSION	P=0.451	P=0.488	(e)	P=0.506
COCH-ARM / FISHERS	P=0.435	P=0.495	(e)	P=0.495
ORDER RESTRICTED	P=0.240	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Harderian Gland Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	10/50 (20%)	4/50 (8%)	3/50 (6%)	7/50 (14%)
POLY-3 RATE (b)	10/45.92	4/42.93	3/47.62	7/43.02
POLY-3 PERCENT (g)	21.8%	9.3%	6.3%	16.3%
TERMINAL (d)	7/35 (20%)	2/32 (6%)	3/40 (8%)	7/36 (19%)
FIRST INCIDENCE	549	532	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.325N	P=0.115N	P=0.024N*	P=0.292N
POLY 3	P=0.362N	P=0.092N	P=0.029N*	P=0.349N
POLY 1.5	P=0.363N	P=0.087N	P=0.032N*	P=0.332N
POLY 6	P=0.361N	P=0.094N	P=0.026N*	P=0.361N
LOGISTIC REGRESSION	P=0.371N	P=0.072N	P=0.035N*	P=0.331N
COCH-ARM / FISHERS	P=0.370N	P=0.074N	P=0.036N*	P=0.298N
ORDER RESTRICTED	P=0.088N	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Harderian Gland Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/45.55	0/41.75	1/47.62	2/43.02
POLY-3 PERCENT (g)	2.2%	0%	2.1%	4.7%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	1/40 (3%)	2/36 (6%)
FIRST INCIDENCE	555	---	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.233	P=0.527N	P=0.741N	P=0.496
POLY 3	P=0.222	P=0.517N	P=0.751N	P=0.480
POLY 1.5	P=0.222	P=0.513N	P=0.755N	P=0.486
POLY 6	P=0.223	P=0.520N	P=0.745N	P=0.477
LOGISTIC REGRESSION	P=0.221	P=0.384N	P=0.737	P=0.518
COCH-ARM / FISHERS	P=0.220	P=0.500N	P=0.753N	P=0.500
ORDER RESTRICTED	P=0.211	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Harderian Gland Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	11/50 (22%)	4/50 (8%)	4/50 (8%)	8/50 (16%)
POLY-3 RATE (b)	11/46.48	4/42.93	4/47.62	8/43.02
POLY-3 PERCENT (g)	23.7%	9.3%	8.4%	18.6%
TERMINAL (d)	7/35 (20%)	2/32 (6%)	4/40 (10%)	8/36 (22%)
FIRST INCIDENCE	549	532	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.379N	P=0.079N	P=0.031N*	P=0.304N
POLY 3	P=0.426N	P=0.061N	P=0.039N*	P=0.372N
POLY 1.5	P=0.425N	P=0.056N	P=0.041N*	P=0.349N
POLY 6	P=0.427N	P=0.064N	P=0.036N*	P=0.391N
LOGISTIC REGRESSION	P=0.430N	P=0.038N*	P=0.050N*	P=0.334N
COCH-ARM / FISHERS	P=0.428N	P=0.045N*	P=0.045N*	P=0.306N
ORDER RESTRICTED	P=0.091N	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM

Intestine Small: Site Unspecified  
Carcinoma or Adenoma

TUMOR RATES

	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.99	2/41.75	0/47.62	0/43.02
POLY-3 PERCENT (g)	0%	4.8%	0%	0%
TERMINAL (d)	0/35 (0%)	2/32 (6%)	0/40 (0%)	0/36 (0%)
FIRST INCIDENCE	---	729 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.304N	P=0.219	(e)	(e)
POLY 3	P=0.330N	P=0.221	(e)	(e)
POLY 1.5	P=0.329N	P=0.225	(e)	(e)
POLY 6	P=0.329N	P=0.219	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.219	(e)	(e)
COCH-ARM / FISHERS	P=0.321N	P=0.247	(e)	(e)
ORDER RESTRICTED	P=0.241N	(e)	(e)	(e)



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 TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Liver Hemangiosarcoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	4/50 (8%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	4/45.94	0/41.75	0/47.62	0/43.02
POLY-3 PERCENT (g)	8.7%	0%	0%	0%
TERMINAL (d)	1/35 (3%)	0/32 (0%)	0/40 (0%)	0/36 (0%)
FIRST INCIDENCE	456	---	---	---
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.028N*	P=0.077N	P=0.054N	P=0.067N
POLY 3	P=0.022N*	P=0.073N	P=0.056N	P=0.069N
POLY 1.5	P=0.024N*	P=0.070N	P=0.058N	P=0.066N
POLY 6	P=0.021N*	P=0.076N	P=0.053N	P=0.070N
LOGISTIC REGRESSION	P=0.031N*	P=0.043N*	P=0.076N	P=0.045N*
COCH-ARM / FISHERS	P=0.030N*	P=0.059N	P=0.059N	P=0.059N
ORDER RESTRICTED	P=0.003N**	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Liver Hepatocellular Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	24/50 (48%)	27/50 (54%)	27/50 (54%)	25/50 (50%)
POLY-3 RATE (b)	24/47.76	27/45.22	27/48.83	25/45.2
POLY-3 PERCENT (g)	50.3%	59.7%	55.3%	55.3%
TERMINAL (d)	16/35 (46%)	19/32 (59%)	23/40 (58%)	22/36 (61%)
FIRST INCIDENCE	486	453	383	429
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.411N	P=0.228	P=0.559N	P=0.518
POLY 3	P=0.453	P=0.238	P=0.385	P=0.389
POLY 1.5	P=0.484	P=0.261	P=0.369	P=0.429
POLY 6	P=0.417	P=0.231	P=0.405	P=0.352
LOGISTIC REGRESSION	P=0.520	P=0.304	P=0.327	P=0.472
COCH-ARM / FISHERS	P=0.525	P=0.345	P=0.345	P=0.500
ORDER RESTRICTED	P=0.418	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Liver</b>				
<b>Hepatocellular Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	10/50 (20%)	12/50 (24%)	11/50 (22%)	17/50 (34%)
POLY-3 RATE (b)	10/47.07	12/43.73	11/48.4	17/46.86
POLY-3 PERCENT (g)	21.2%	27.4%	22.7%	36.3%
TERMINAL (d)	3/35 (9%)	5/32 (16%)	7/40 (18%)	8/36 (22%)
FIRST INCIDENCE	549	537	565	429
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.115	P=0.335	P=0.562N	P=0.109
POLY 3	P=0.081	P=0.329	P=0.529	P=0.082
POLY 1.5	P=0.077	P=0.348	P=0.516	P=0.081
POLY 6	P=0.089	P=0.323	P=0.546	P=0.088
LOGISTIC REGRESSION	P=0.074	P=0.435	P=0.434	P=0.123
COCH-ARM / FISHERS	P=0.072	P=0.405	P=0.500	P=0.088
ORDER RESTRICTED	P=0.073	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM

Liver  
 Hepatocellular Carcinoma or Hepatoblastoma

**TUMOR RATES**

OVERALL (a)	10/50 (20%)	12/50 (24%)	11/50 (22%)	17/50 (34%)
POLY-3 RATE (b)	10/47.07	12/43.73	11/48.4	17/46.86
POLY-3 PERCENT (g)	21.2%	27.4%	22.7%	36.3%
TERMINAL (d)	3/35 (9%)	5/32 (16%)	7/40 (18%)	8/36 (22%)
FIRST INCIDENCE	549	537	565	429

**STATISTICAL TESTS**

LIFE TABLE	P=0.115	P=0.335	P=0.562N	P=0.109
POLY 3	P=0.081	P=0.329	P=0.529	P=0.082
POLY 1.5	P=0.077	P=0.348	P=0.516	P=0.081
POLY 6	P=0.089	P=0.323	P=0.546	P=0.088
LOGISTIC REGRESSION	P=0.074	P=0.435	P=0.434	P=0.123
COCH-ARM / FISHERS	P=0.072	P=0.405	P=0.500	P=0.088
ORDER RESTRICTED	P=0.073	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM

Liver  
 Hepatocellular Carcinoma or Hepatocellular Adenoma

**TUMOR RATES**

OVERALL (a)	28/50 (56%)	36/50 (72%)	33/50 (66%)	37/50 (74%)
POLY-3 RATE (b)	28/48.51	36/46.53	33/49.49	37/48.25
POLY-3 PERCENT (g)	57.7%	77.4%	66.7%	76.7%
TERMINAL (d)	17/35 (49%)	23/32 (72%)	26/40 (65%)	26/36 (72%)
FIRST INCIDENCE	486	453	383	429

**STATISTICAL TESTS**

LIFE TABLE	P=0.246	P=0.061	P=0.488	P=0.103
POLY 3	P=0.093	P=0.031*	P=0.239	P=0.035*
POLY 1.5	P=0.090	P=0.036*	P=0.227	P=0.036*
POLY 6	P=0.101	P=0.033*	P=0.254	P=0.038*
LOGISTIC REGRESSION	P=0.089	P=0.056	P=0.167	P=0.051
COCH-ARM / FISHERS	P=0.089	P=0.072	P=0.206	P=0.046*
ORDER RESTRICTED	P=0.026*	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM

Liver  
 Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma

**TUMOR RATES**

OVERALL (a)	28/50 (56%)	36/50 (72%)	33/50 (66%)	37/50 (74%)
POLY-3 RATE (b)	28/48.51	36/46.53	33/49.49	37/48.25
POLY-3 PERCENT (g)	57.7%	77.4%	66.7%	76.7%
TERMINAL (d)	17/35 (49%)	23/32 (72%)	26/40 (65%)	26/36 (72%)
FIRST INCIDENCE	486	453	383	429

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LIFE TABLE	P=0.246	P=0.061	P=0.488	P=0.103
POLY 3	P=0.093	P=0.031*	P=0.239	P=0.035*
POLY 1.5	P=0.090	P=0.036*	P=0.227	P=0.036*
POLY 6	P=0.101	P=0.033*	P=0.254	P=0.038*
LOGISTIC REGRESSION	P=0.089	P=0.056	P=0.167	P=0.051
COCH-ARM / FISHERS	P=0.089	P=0.072	P=0.206	P=0.046*
ORDER RESTRICTED	P=0.026*	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Lung</b>				
<b>Alveolar/Bronchiolar Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	8/50 (16%)	4/50 (8%)	8/50 (16%)	7/50 (14%)
POLY-3 RATE (b)	8/45.05	4/41.75	8/47.64	7/43.02
POLY-3 PERCENT (g)	17.8%	9.6%	16.8%	16.3%
TERMINAL (d)	7/35 (20%)	4/32 (13%)	6/40 (15%)	7/36 (19%)
FIRST INCIDENCE	715	729 (T)	726	729 (T)
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.535	P=0.221N	P=0.486N	P=0.476N
POLY 3	P=0.466	P=0.214N	P=0.560N	P=0.539N
POLY 1.5	P=0.465	P=0.205N	P=0.581N	P=0.528N
POLY 6	P=0.471	P=0.218N	P=0.532N	P=0.542N
LOGISTIC REGRESSION	P=0.513	P=0.204N	P=0.475N	P=0.497N
COCH-ARM / FISHERS	P=0.464	P=0.178N	P=0.607N	P=0.500N
ORDER RESTRICTED	P=0.518N	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Lung</b>				
<b>Alveolar/Bronchiolar Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	5/50 (10%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	5/46.05	2/41.82	1/47.62	2/43.62
POLY-3 PERCENT (g)	10.9%	4.8%	2.1%	4.6%
TERMINAL (d)	3/35 (9%)	1/32 (3%)	1/40 (3%)	1/36 (3%)
FIRST INCIDENCE	555	711	729 (T)	537
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.164N	P=0.260N	P=0.084N	P=0.228N
POLY 3	P=0.167N	P=0.257N	P=0.094N	P=0.239N
POLY 1.5	P=0.171N	P=0.245N	P=0.098N	P=0.232N
POLY 6	P=0.163N	P=0.265N	P=0.089N	P=0.242N
LOGISTIC REGRESSION	P=0.178N	P=0.209N	P=0.122N	P=0.174N
COCH-ARM / FISHERS	P=0.179N	P=0.218N	P=0.102N	P=0.218N
ORDER RESTRICTED	P=0.090N	(e)	(e)	(e)



TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM

Lung  
 Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma

**TUMOR RATES**

OVERALL (a)	13/50 (26%)	6/50 (12%)	9/50 (18%)	9/50 (18%)
POLY-3 RATE (b)	13/46.11	6/41.82	9/47.64	9/43.62
POLY-3 PERCENT (g)	28.2%	14.4%	18.9%	20.6%
TERMINAL (d)	10/35 (29%)	5/32 (16%)	7/40 (18%)	8/36 (22%)
FIRST INCIDENCE	555	711	726	537

**STATISTICAL TESTS**

LIFE TABLE	P=0.306N	P=0.098N	P=0.148N	P=0.226N
POLY 3	P=0.363N	P=0.092N	P=0.206N	P=0.279N
POLY 1.5	P=0.367N	P=0.082N	P=0.219N	P=0.265N
POLY 6	P=0.356N	P=0.099N	P=0.190N	P=0.286N
LOGISTIC REGRESSION	P=0.377N	P=0.085N	P=0.205N	P=0.261N
COCH-ARM / FISHERS	P=0.375N	P=0.062N	P=0.235N	P=0.235N
ORDER RESTRICTED	P=0.181N	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM

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

**TUMOR RATES**

OVERALL (a)	0/48 (0%)	0/47 (0%)	0/49 (0%)	0/45 (0%)
POLY-3 RATE (b)	0/42.99	0/40.69	0/46.85	0/39.31
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/32 (0%)	0/40 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)

TDMS No. 88006-04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

ALPHA-METHYLSTYRENE

CAS Number: 98-83-9

Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005

Time Report Requested: 9:55:44

First Dose M/F: 07/30/01 / 07/30/01

Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM

Pituitary Gland: Pars Intermedia  
Adenoma

TUMOR RATES

OVERALL (a)	1/48 (2%)	0/47 (0%)	1/49 (2%)	0/45 (0%)
POLY-3 RATE (b)	1/42.99	0/40.69	1/47.38	0/39.31
POLY-3 PERCENT (g)	2.3%	0%	2.1%	0%
TERMINAL (d)	1/33 (3%)	0/32 (0%)	0/40 (0%)	0/34 (0%)
FIRST INCIDENCE	729 (T)	---	565	---

STATISTICAL TESTS

LIFE TABLE	P=0.431N	P=0.506N	P=0.732N	P=0.494N
POLY 3	P=0.444N	P=0.511N	P=0.739N	P=0.518N
POLY 1.5	P=0.446N	P=0.510N	P=0.746N	P=0.517N
POLY 6	P=0.442N	P=0.510N	P=0.728N	P=0.516N
LOGISTIC REGRESSION	P=0.441N	(e)	P=0.739	(e)
COCH-ARM / FISHERS	P=0.449N	P=0.505N	P=0.747N	P=0.516N
ORDER RESTRICTED	P=0.270N	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.99	0/41.75	0/47.62	0/43.02
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/40 (0%)	0/36 (0%)
FIRST INCIDENCE	---	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Reqsted: 07/28/2005  
 Time Report Reqsted: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.99	0/41.75	0/47.62	0/43.02
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/40 (0%)	0/36 (0%)
FIRST INCIDENCE	---	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Skin</b>				
<b>Sarcoma</b>				
<b>TUMOR RATES</b>				
	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.99	0/41.75	0/47.62	0/43.02
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/40 (0%)	0/36 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM

**Stomach, Forestomach  
 Squamous Cell Papilloma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/44.99	1/41.75	0/47.62	2/43.02
POLY-3 PERCENT (g)	0%	2.4%	0%	4.7%
TERMINAL (d)	0/35 (0%)	1/32 (3%)	0/40 (0%)	2/36 (6%)
FIRST INCIDENCE	---	729 (T)	---	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.167	P=0.482	(e)	P=0.244
POLY 3	P=0.152	P=0.485	(e)	P=0.227
POLY 1.5	P=0.152	P=0.489	(e)	P=0.230
POLY 6	P=0.153	P=0.484	(e)	P=0.227
LOGISTIC REGRESSION	(e)	P=0.482	(e)	P=0.244
COCH-ARM / FISHERS	P=0.155	P=0.500	(e)	P=0.247
ORDER RESTRICTED	P=0.068	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM

**Thyroid Gland: Follicular Cell  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	3/50 (6%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	3/44.99	0/41.75	1/47.62	2/43.02
POLY-3 PERCENT (g)	6.7%	0%	2.1%	4.7%
TERMINAL (d)	3/35 (9%)	0/32 (0%)	1/40 (3%)	2/36 (6%)
FIRST INCIDENCE	729 (T)	---	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.577N	P=0.137N	P=0.258N	P=0.487N
POLY 3	P=0.587N	P=0.132N	P=0.285N	P=0.520N
POLY 1.5	P=0.593N	P=0.129N	P=0.294N	P=0.515N
POLY 6	P=0.582N	P=0.134N	P=0.274N	P=0.521N
LOGISTIC REGRESSION	P=0.577N	(e)	P=0.258N	P=0.487N
COCH-ARM / FISHERS	P=0.607	P=0.121N	P=0.309N	P=0.500N
ORDER RESTRICTED	P=0.200N	(e)	(e)	(e)



TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM

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

**TUMOR RATES**

OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	3/44.99	1/41.75	1/47.62	2/43.02
POLY-3 PERCENT (g)	6.7%	2.4%	2.1%	4.7%
TERMINAL (d)	3/35 (9%)	1/32 (3%)	1/40 (3%)	2/36 (6%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.465N	P=0.337N	P=0.258N	P=0.487N
POLY 3	P=0.486N	P=0.332N	P=0.285N	P=0.520N
POLY 1.5	P=0.491N	P=0.326N	P=0.294N	P=0.515N
POLY 6	P=0.480N	P=0.335N	P=0.274N	P=0.521N
LOGISTIC REGRESSION	P=0.465N	P=0.337N	P=0.258N	P=0.487N
COCH-ARM / FISHERS	P=0.500N	P=0.309N	P=0.309N	P=0.500N
ORDER RESTRICTED	P=0.304N	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>All Organs</b>				
<b>Hemangiosarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	4/50 (8%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	4/45.94	0/41.75	0/47.62	0/43.02
POLY-3 PERCENT (g)	8.7%	0%	0%	0%
TERMINAL (d)	1/35 (3%)	0/32 (0%)	0/40 (0%)	0/36 (0%)
FIRST INCIDENCE	456	---	---	---
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.028N*	P=0.077N	P=0.054N	P=0.067N
POLY 3	P=0.022N*	P=0.073N	P=0.056N	P=0.069N
POLY 1.5	P=0.024N*	P=0.070N	P=0.058N	P=0.066N
POLY 6	P=0.021N*	P=0.076N	P=0.053N	P=0.070N
LOGISTIC REGRESSION	P=0.031N*	P=0.043N*	P=0.076N	P=0.045N*
COCH-ARM / FISHERS	P=0.030N*	P=0.059N	P=0.059N	P=0.059N
ORDER RESTRICTED	P=0.003N**	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM

**All Organs  
 Hemangiosarcoma or Hemangioma**

TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	4/45.94	0/41.75	0/47.62	0/43.02
POLY-3 PERCENT (g)	8.7%	0%	0%	0%
TERMINAL (d)	1/35 (3%)	0/32 (0%)	0/40 (0%)	0/36 (0%)
FIRST INCIDENCE	456	---	---	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.028N*	P=0.077N	P=0.054N	P=0.067N
POLY 3	P=0.022N*	P=0.073N	P=0.056N	P=0.069N
POLY 1.5	P=0.024N*	P=0.070N	P=0.058N	P=0.066N
POLY 6	P=0.021N*	P=0.076N	P=0.053N	P=0.070N
LOGISTIC REGRESSION	P=0.031N*	P=0.043N*	P=0.076N	P=0.045N*
COCH-ARM / FISHERS	P=0.030N*	P=0.059N	P=0.059N	P=0.059N
ORDER RESTRICTED	P=0.003N**	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>All Organs</b>				
<b>Histiocytic Sarcoma</b>				
<b>TUMOR RATES</b>				
	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/44.99	2/42.57	1/47.85	1/43.06
POLY-3 PERCENT (g)	0%	4.7%	2.1%	2.3%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	0/40 (0%)	0/36 (0%)
FIRST INCIDENCE	---	532	668	719
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.546	P=0.219	P=0.522	P=0.505
POLY 3	P=0.527	P=0.225	P=0.512	P=0.491
POLY 1.5	P=0.531	P=0.227	P=0.507	P=0.494
POLY 6	P=0.527	P=0.226	P=0.520	P=0.491
LOGISTIC REGRESSION	P=0.547	P=0.295	P=0.481	P=0.491
COCH-ARM / FISHERS	P=0.544	P=0.247	P=0.500	P=0.500
ORDER RESTRICTED	P=0.276	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	0/44.99	1/42.32	3/48.04	1/43.12
POLY-3 PERCENT (g)	0%	2.4%	6.2%	2.3%
TERMINAL (d)	0/35 (0%)	0/32 (0%)	2/40 (5%)	0/36 (0%)
FIRST INCIDENCE	---	550	608	705

**STATISTICAL TESTS**

LIFE TABLE	P=0.358	P=0.478	P=0.145	P=0.505
POLY 3	P=0.328	P=0.488	P=0.131	P=0.491
POLY 1.5	P=0.333	P=0.490	P=0.126	P=0.494
POLY 6	P=0.327	P=0.488	P=0.139	P=0.492
LOGISTIC REGRESSION	P=0.349	P=0.622	P=0.109	P=0.494
COCH-ARM / FISHERS	P=0.346	P=0.500	P=0.121	P=0.500
ORDER RESTRICTED	P=0.166	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>All Organs</b>				
<b>Benign Tumors</b>				
<b>TUMOR RATES</b>				
	#	#	#	#
OVERALL (a)	35/50 (70%)	31/50 (62%)	33/50 (66%)	32/50 (64%)
POLY-3 RATE (b)	35/47.76	31/45.94	33/49.38	32/45.2
POLY-3 PERCENT (g)	73.3%	67.5%	66.8%	70.8%
TERMINAL (d)	27/35 (77%)	21/32 (66%)	26/40 (65%)	29/36 (81%)
FIRST INCIDENCE	486	453	383	429
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.246N	P=0.495N	P=0.168N	P=0.301N
POLY 3	P=0.484N	P=0.346N	P=0.316N	P=0.485N
POLY 1.5	P=0.444N	P=0.334N	P=0.356N	P=0.427N
POLY 6	P=0.531N	P=0.332N	P=0.268N	P=0.543N
LOGISTIC REGRESSION	P=0.407N	P=0.351N	P=0.395N	P=0.432N
COCH-ARM / FISHERS	P=0.398N	P=0.263N	P=0.415N	P=0.335N
ORDER RESTRICTED	P=0.471N	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>All Organs</b>				
<b>Malignant Tumors</b>				
<b>TUMOR RATES</b>				
	#	#	#	#
OVERALL (a)	19/50 (38%)	20/50 (40%)	17/50 (34%)	22/50 (44%)
POLY-3 RATE (b)	19/48.52	20/44.63	17/49.06	22/47.71
POLY-3 PERCENT (g)	39.2%	44.8%	34.7%	46.1%
TERMINAL (d)	8/35 (23%)	9/32 (28%)	10/40 (25%)	11/36 (31%)
FIRST INCIDENCE	456	532	565	429
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.432	P=0.389	P=0.284N	P=0.359
POLY 3	P=0.366	P=0.366	P=0.401N	P=0.315
POLY 1.5	P=0.356	P=0.400	P=0.411N	P=0.318
POLY 6	P=0.382	P=0.354	P=0.384N	P=0.323
LOGISTIC REGRESSION	P=0.345	P=0.522	P=0.541N	P=0.429
COCH-ARM / FISHERS	P=0.340	P=0.500	P=0.418N	P=0.342
ORDER RESTRICTED	P=0.386	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	600 PPM

**All Organs  
 Malignant and Benign Tumors**

**TUMOR RATES**

	#	#	#	#
OVERALL (a)	43/50 (86%)	40/50 (80%)	37/50 (74%)	44/50 (88%)
POLY-3 RATE (b)	43/49.4	40/47.25	37/49.92	44/49.09
POLY-3 PERCENT (g)	87.1%	84.7%	74.1%	89.6%
TERMINAL (d)	30/35 (86%)	25/32 (78%)	28/40 (70%)	31/36 (86%)
FIRST INCIDENCE	456	453	383	429

**STATISTICAL TESTS**

LIFE TABLE	P=0.453N	P=0.525	P=0.045N*	P=0.521
POLY 3	P=0.450	P=0.482N	P=0.082N	P=0.465
POLY 1.5	P=0.428	P=0.449N	P=0.092N	P=0.459
POLY 6	P=0.480	P=0.463N	P=0.068N	P=0.503
LOGISTIC REGRESSION	P=0.386	P=0.401N	P=0.139N	P=0.492
COCH-ARM / FISHERS	P=0.389	P=0.298N	P=0.105N	P=0.500
ORDER RESTRICTED	P=0.226	(e)	(e)	(e)



TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM

**Adrenal Medulla  
 Pheochromocytoma Benign**

**TUMOR RATES**

OVERALL (a)	2/50 (4%)	1/50 (2%)	2/49 (4%)	0/49 (0%)
POLY-3 RATE (b)	2/45.99	1/44.96	2/43.47	0/45.07
POLY-3 PERCENT (g)	4.4%	2.2%	4.6%	0%
TERMINAL (d)	2/39 (5%)	1/38 (3%)	2/37 (5%)	0/36 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	731 (T)	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.233N	P=0.509N	P=0.676	P=0.256N
POLY 3	P=0.218N	P=0.508N	P=0.674	P=0.242N
POLY 1.5	P=0.218N	P=0.504N	P=0.673	P=0.240N
POLY 6	P=0.220N	P=0.510N	P=0.676	P=0.244N
LOGISTIC REGRESSION	P=0.233N	P=0.509N	P=0.676	(e)
COCH-ARM / FISHERS	P=0.220N	P=0.500N	P=0.684	P=0.253N
ORDER RESTRICTED	P=0.158N	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Harderian Gland Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	3/50 (6%)	3/50 (6%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	3/45.99	3/45.06	3/44.22	1/46.07
POLY-3 PERCENT (g)	6.5%	6.7%	6.8%	2.2%
TERMINAL (d)	3/39 (8%)	2/38 (5%)	3/37 (8%)	1/37 (3%)
FIRST INCIDENCE	731 (T)	705	731 (T)	731 (T)
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.237N	P=0.650	P=0.639	P=0.324N
POLY 3	P=0.217N	P=0.653	P=0.644	P=0.305N
POLY 1.5	P=0.216N	P=0.657	P=0.645	P=0.303N
POLY 6	P=0.220N	P=0.651	P=0.645	P=0.308N
LOGISTIC REGRESSION	P=0.227N	P=0.651	P=0.639	P=0.324N
COCH-ARM / FISHERS	P=0.218N	P=0.661N	P=0.661N	P=0.309N
ORDER RESTRICTED	P=0.274N	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM

**Harderian Gland  
 Carcinoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/45.99	0/44.96	0/44.22	1/46.07
POLY-3 PERCENT (g)	2.2%	0%	0%	2.2%
TERMINAL (d)	1/39 (3%)	0/38 (0%)	0/37 (0%)	1/37 (3%)
FIRST INCIDENCE	731 (T)	---	---	731 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.551	P=0.505N	P=0.511N	P=0.750
POLY 3	P=0.565	P=0.505N	P=0.508N	P=0.760N
POLY 1.5	P=0.564	P=0.502N	P=0.508N	P=0.759N
POLY 6	P=0.564	P=0.506N	P=0.507N	P=0.759
LOGISTIC REGRESSION	P=0.551	(e)	(e)	P=0.750
COCH-ARM / FISHERS	P=0.562	P=0.500N	P=0.500N	P=0.753N
ORDER RESTRICTED	P=0.402N	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Harderian Gland Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	4/50 (8%)	3/50 (6%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	4/45.99	3/45.06	3/44.22	2/46.07
POLY-3 PERCENT (g)	8.7%	6.7%	6.8%	4.3%
TERMINAL (d)	4/39 (10%)	2/38 (5%)	3/37 (8%)	2/37 (5%)
FIRST INCIDENCE	731 (T)	705	731 (T)	731 (T)
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.303N	P=0.514N	P=0.529N	P=0.361N
POLY 3	P=0.278N	P=0.511N	P=0.521N	P=0.336N
POLY 1.5	P=0.277N	P=0.506N	P=0.521N	P=0.334N
POLY 6	P=0.281N	P=0.514N	P=0.520N	P=0.341N
LOGISTIC REGRESSION	P=0.292N	P=0.515N	P=0.529N	P=0.361N
COCH-ARM / FISHERS	P=0.279N	P=0.500N	P=0.500N	P=0.339N
ORDER RESTRICTED	P=0.317N	(e)	(e)	(e)

TDMS No. 88006-04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

ALPHA-METHYLSTYRENE

CAS Number: 98-83-9

Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005

Time Report Requested: 9:55:44

First Dose M/F: 07/30/01 / 07/30/01

Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM

Intestine Small: Site Unspecified  
Carcinoma or Adenoma

TUMOR RATES

	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/45.99	1/44.96	1/44.22	0/46.07
POLY-3 PERCENT (g)	0%	2.2%	2.3%	0%
TERMINAL (d)	0/39 (0%)	1/38 (3%)	1/37 (3%)	0/37 (0%)
FIRST INCIDENCE	---	731 (T)	731 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.572N	P=0.495	P=0.489	(e)
POLY 3	P=0.562N	P=0.495	P=0.492	(e)
POLY 1.5	P=0.561N	P=0.498	P=0.492	(e)
POLY 6	P=0.565N	P=0.494	P=0.493	(e)
LOGISTIC REGRESSION	(e)	P=0.495	P=0.489	(e)
COCH-ARM / FISHERS	P=0.562N	P=0.500	P=0.500	(e)
ORDER RESTRICTED	P=0.393N	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Liver Hemangiosarcoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.99	0/44.96	0/44.22	0/46.07
POLY-3 PERCENT (g)	2.2%	0%	0%	0%
TERMINAL (d)	1/39 (3%)	0/38 (0%)	0/37 (0%)	0/37 (0%)
FIRST INCIDENCE	731 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.338N	P=0.505N	P=0.511N	P=0.511N
POLY 3	P=0.331N	P=0.505N	P=0.508N	P=0.500N
POLY 1.5	P=0.333N	P=0.502N	P=0.508N	P=0.498N
POLY 6	P=0.329N	P=0.506N	P=0.507N	P=0.502N
LOGISTIC REGRESSION	P=0.338N	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.331N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.120N	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Liver Hepatocellular Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	10/50 (20%)	20/50 (40%)	21/50 (42%)	23/50 (46%)
POLY-3 RATE (b)	10/46.01	20/45.57	21/44.22	23/47.22
POLY-3 PERCENT (g)	21.7%	43.9%	47.5%	48.7%
TERMINAL (d)	9/39 (23%)	16/38 (42%)	21/37 (57%)	19/37 (51%)
FIRST INCIDENCE	725	640	731 (T)	464
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.008**	P=0.023*	P=0.007**	P=0.004**
POLY 3	P=0.014*	P=0.018*	P=0.007**	P=0.005**
POLY 1.5	P=0.014*	P=0.020*	P=0.008**	P=0.005**
POLY 6	P=0.013*	P=0.018*	P=0.007**	P=0.004**
LOGISTIC REGRESSION	P=0.012*	P=0.017*	P=0.007**	P=0.005**
COCH-ARM / FISHERS	P=0.014*	P=0.024*	P=0.015*	P=0.005**
ORDER RESTRICTED	P=0.003**	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Liver Hepatocellular Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	3/50 (6%)	9/50 (18%)	6/50 (12%)	18/50 (36%)
POLY-3 RATE (b)	3/46.5	9/45.82	6/45.7	18/47.63
POLY-3 PERCENT (g)	6.5%	19.6%	13.1%	37.8%
TERMINAL (d)	1/39 (3%)	6/38 (16%)	4/37 (11%)	11/37 (30%)
FIRST INCIDENCE	634	537	416	612
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P<0.001**	P=0.064	P=0.228	P<0.001**
POLY 3	P<0.001**	P=0.056	P=0.234	P<0.001**
POLY 1.5	P<0.001**	P=0.058	P=0.232	P<0.001**
POLY 6	P<0.001**	P=0.054	P=0.235	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P=0.062	P=0.267	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.061	P=0.243	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)



TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Liver</b>				
<b>Hepatocellular Carcinoma or Hepatoblastoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	3/50 (6%)	9/50 (18%)	6/50 (12%)	19/50 (38%)
POLY-3 RATE (b)	3/46.5	9/45.82	6/45.7	19/47.63
POLY-3 PERCENT (g)	6.5%	19.6%	13.1%	39.9%
TERMINAL (d)	1/39 (3%)	6/38 (16%)	4/37 (11%)	12/37 (32%)
FIRST INCIDENCE	634	537	416	612
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P<0.001**	P=0.064	P=0.228	P<0.001**
POLY 3	P<0.001**	P=0.056	P=0.234	P<0.001**
POLY 1.5	P<0.001**	P=0.058	P=0.232	P<0.001**
POLY 6	P<0.001**	P=0.054	P=0.235	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P=0.062	P=0.267	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.061	P=0.243	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM

Liver  
 Hepatocellular Carcinoma or Hepatocellular Adenoma

**TUMOR RATES**

OVERALL (a)	13/50 (26%)	26/50 (52%)	24/50 (48%)	33/50 (66%)
POLY-3 RATE (b)	13/46.52	26/46.41	24/45.7	33/48.52
POLY-3 PERCENT (g)	27.9%	56%	52.5%	68%
TERMINAL (d)	10/39 (26%)	20/38 (53%)	22/37 (60%)	24/37 (65%)
FIRST INCIDENCE	634	537	416	464

**STATISTICAL TESTS**

LIFE TABLE	P<0.001**	P=0.009**	P=0.012*	P<0.001**
POLY 3	P<0.001**	P=0.004**	P=0.012*	P<0.001**
POLY 1.5	P<0.001**	P=0.005**	P=0.012*	P<0.001**
POLY 6	P<0.001**	P=0.004**	P=0.011*	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P=0.005**	P=0.013*	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.007**	P=0.019*	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM

Liver  
 Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma

TUMOR RATES

OVERALL (a)	13/50 (26%)	26/50 (52%)	24/50 (48%)	33/50 (66%)
POLY-3 RATE (b)	13/46.52	26/46.41	24/45.7	33/48.52
POLY-3 PERCENT (g)	27.9%	56%	52.5%	68%
TERMINAL (d)	10/39 (26%)	20/38 (53%)	22/37 (60%)	24/37 (65%)
FIRST INCIDENCE	634	537	416	464

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P=0.009**	P=0.012*	P<0.001**
POLY 3	P<0.001**	P=0.004**	P=0.012*	P<0.001**
POLY 1.5	P<0.001**	P=0.005**	P=0.012*	P<0.001**
POLY 6	P<0.001**	P=0.004**	P=0.011*	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P=0.005**	P=0.013*	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.007**	P=0.019*	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Lung</b>				
<b>Alveolar/Bronchiolar Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	2/50 (4%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	1/45.99	2/44.96	4/44.47	4/46.07
POLY-3 PERCENT (g)	2.2%	4.5%	9%	8.7%
TERMINAL (d)	1/39 (3%)	2/38 (5%)	3/37 (8%)	4/37 (11%)
FIRST INCIDENCE	731 (T)	731 (T)	663	731 (T)
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.102	P=0.491	P=0.168	P=0.164
POLY 3	P=0.114	P=0.492	P=0.169	P=0.179
POLY 1.5	P=0.115	P=0.496	P=0.168	P=0.181
POLY 6	P=0.111	P=0.490	P=0.170	P=0.176
LOGISTIC REGRESSION	P=0.111	P=0.491	P=0.168	P=0.164
COCH-ARM / FISHERS	P=0.112	P=0.500	P=0.181	P=0.181
ORDER RESTRICTED	P=0.138	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Lung</b>				
<b>Alveolar/Bronchiolar Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	5/50 (10%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	1/45.99	5/44.99	2/44.47	2/46.28
POLY-3 PERCENT (g)	2.2%	11.1%	4.5%	4.3%
TERMINAL (d)	1/39 (3%)	4/38 (11%)	1/37 (3%)	1/37 (3%)
FIRST INCIDENCE	731 (T)	725	663	677
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.489N	P=0.100	P=0.485	P=0.493
POLY 3	P=0.472N	P=0.096	P=0.488	P=0.502
POLY 1.5	P=0.470N	P=0.099	P=0.488	P=0.503
POLY 6	P=0.474N	P=0.095	P=0.491	P=0.500
LOGISTIC REGRESSION	P=0.470N	P=0.098	P=0.491	P=0.502
COCH-ARM / FISHERS	P=0.472N	P=0.102	P=0.500	P=0.500
ORDER RESTRICTED	P=0.273	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM

Lung  
 Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma

**TUMOR RATES**

OVERALL (a)	2/50 (4%)	7/50 (14%)	5/50 (10%)	6/50 (12%)
POLY-3 RATE (b)	2/45.99	7/44.99	5/44.47	6/46.28
POLY-3 PERCENT (g)	4.4%	15.6%	11.2%	13%
TERMINAL (d)	2/39 (5%)	6/38 (16%)	4/37 (11%)	5/37 (14%)
FIRST INCIDENCE	731 (T)	725	663	677

**STATISTICAL TESTS**

LIFE TABLE	P=0.230	P=0.077	P=0.199	P=0.123
POLY 3	P=0.255	P=0.073	P=0.203	P=0.135
POLY 1.5	P=0.257	P=0.076	P=0.202	P=0.137
POLY 6	P=0.251	P=0.071	P=0.205	P=0.132
LOGISTIC REGRESSION	P=0.249	P=0.075	P=0.201	P=0.130
COCH-ARM / FISHERS	P=0.252	P=0.080	P=0.218	P=0.134
ORDER RESTRICTED	P=0.130	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Ovary Cystadenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/48 (4%)	1/50 (2%)	3/49 (6%)	2/50 (4%)
POLY-3 RATE (b)	2/44.34	1/45.19	3/43.33	2/46.07
POLY-3 PERCENT (g)	4.5%	2.2%	6.9%	4.3%
TERMINAL (d)	1/37 (3%)	0/38 (0%)	3/37 (8%)	2/37 (5%)
FIRST INCIDENCE	634	670	731 (T)	731 (T)
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.469	P=0.505N	P=0.500	P=0.691N
POLY 3	P=0.484	P=0.493N	P=0.490	P=0.680N
POLY 1.5	P=0.486	P=0.490N	P=0.491	P=0.677N
POLY 6	P=0.478	P=0.496N	P=0.490	P=0.685N
LOGISTIC REGRESSION	P=0.483	P=0.485N	P=0.496	P=0.679N
COCH-ARM / FISHERS	P=0.480	P=0.485N	P=0.510	P=0.676N
ORDER RESTRICTED	P=0.478	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM

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

**TUMOR RATES**

OVERALL (a)	4/50 (8%)	6/48 (13%)	4/50 (8%)	2/47 (4%)
POLY-3 RATE (b)	4/46.22	6/44.46	4/44.75	2/44.41
POLY-3 PERCENT (g)	8.7%	13.5%	8.9%	4.5%
TERMINAL (d)	3/39 (8%)	4/38 (11%)	2/37 (5%)	1/36 (3%)
FIRST INCIDENCE	670	556	649	527

**STATISTICAL TESTS**

LIFE TABLE	P=0.190N	P=0.354	P=0.618	P=0.362N
POLY 3	P=0.176N	P=0.345	P=0.625	P=0.356N
POLY 1.5	P=0.177N	P=0.346	P=0.624	P=0.357N
POLY 6	P=0.177N	P=0.349	P=0.630	P=0.357N
LOGISTIC REGRESSION	P=0.183N	P=0.343	P=0.631	P=0.383N
COCH-ARM / FISHERS	P=0.183N	P=0.344	P=0.643N	P=0.369N
ORDER RESTRICTED	P=0.215N	(e)	(e)	(e)



TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM

**Pituitary Gland: Pars Intermedia  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	0/50 (0%)	0/48 (0%)	2/50 (4%)	0/47 (0%)
POLY-3 RATE (b)	0/45.99	0/43.8	2/44.33	0/43.78
POLY-3 PERCENT (g)	0%	0%	4.5%	0%
TERMINAL (d)	0/39 (0%)	0/38 (0%)	1/37 (3%)	0/36 (0%)
FIRST INCIDENCE	---	---	702	---

**STATISTICAL TESTS**

LIFE TABLE	P=0.546	(e)	P=0.231	(e)
POLY 3	P=0.566	(e)	P=0.229	(e)
POLY 1.5	P=0.566	(e)	P=0.229	(e)
POLY 6	P=0.562	(e)	P=0.230	(e)
LOGISTIC REGRESSION	P=0.554	(e)	P=0.230	(e)
COCH-ARM / FISHERS	P=0.553	(e)	P=0.247	(e)
ORDER RESTRICTED	P=0.240	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	6/50 (12%)	3/50 (6%)	0/50 (0%)	4/50 (8%)
POLY-3 RATE (b)	6/46.34	3/45.52	0/44.22	4/46.61
POLY-3 PERCENT (g)	13%	6.6%	0%	8.6%
TERMINAL (d)	3/39 (8%)	1/38 (3%)	0/37 (0%)	1/37 (3%)
FIRST INCIDENCE	670	640	---	645

**STATISTICAL TESTS**

LIFE TABLE	P=0.324N	P=0.262N	P=0.023N*	P=0.396N
POLY 3	P=0.308N	P=0.251N	P=0.018N*	P=0.366N
POLY 1.5	P=0.308N	P=0.247N	P=0.018N*	P=0.364N
POLY 6	P=0.309N	P=0.253N	P=0.018N*	P=0.370N
LOGISTIC REGRESSION	P=0.307N	P=0.244N	P=0.019N*	P=0.368N
COCH-ARM / FISHERS	P=0.308N	P=0.243N	P=0.013N*	P=0.370N
ORDER RESTRICTED	P=0.078N	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	6/50 (12%)	3/50 (6%)	0/50 (0%)	4/50 (8%)
POLY-3 RATE (b)	6/46.34	3/45.52	0/44.22	4/46.61
POLY-3 PERCENT (g)	13%	6.6%	0%	8.6%
TERMINAL (d)	3/39 (8%)	1/38 (3%)	0/37 (0%)	1/37 (3%)
FIRST INCIDENCE	670	640	---	645

**STATISTICAL TESTS**

LIFE TABLE	P=0.324N	P=0.262N	P=0.023N*	P=0.396N
POLY 3	P=0.308N	P=0.251N	P=0.018N*	P=0.366N
POLY 1.5	P=0.308N	P=0.247N	P=0.018N*	P=0.364N
POLY 6	P=0.309N	P=0.253N	P=0.018N*	P=0.370N
LOGISTIC REGRESSION	P=0.307N	P=0.244N	P=0.019N*	P=0.368N
COCH-ARM / FISHERS	P=0.308N	P=0.243N	P=0.013N*	P=0.370N
ORDER RESTRICTED	P=0.078N	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Skin</b>				
<b>Sarcoma</b>				
<b>TUMOR RATES</b>				
	#	#	#	#
OVERALL (a)	6/50 (12%)	2/50 (4%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	6/46.34	2/45.29	0/44.22	3/46.46
POLY-3 PERCENT (g)	13%	4.4%	0%	6.5%
TERMINAL (d)	3/39 (8%)	1/38 (3%)	0/37 (0%)	1/37 (3%)
FIRST INCIDENCE	670	640	---	645
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.224N	P=0.149N	P=0.023N*	P=0.268N
POLY 3	P=0.205N	P=0.140N	P=0.018N*	P=0.241N
POLY 1.5	P=0.206N	P=0.137N	P=0.018N*	P=0.238N
POLY 6	P=0.205N	P=0.143N	P=0.018N*	P=0.245N
LOGISTIC REGRESSION	P=0.208N	P=0.137N	P=0.019N*	P=0.240N
COCH-ARM / FISHERS	P=0.208N	P=0.134N	P=0.013N*	P=0.243N
ORDER RESTRICTED	P=0.032N*	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Stomach, Forestomach Squamous Cell Papilloma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/45.99	0/44.96	1/44.22	1/46.07
POLY-3 PERCENT (g)	2.2%	0%	2.3%	2.2%
TERMINAL (d)	1/39 (3%)	0/38 (0%)	1/37 (3%)	1/37 (3%)
FIRST INCIDENCE	731 (T)	---	731 (T)	731 (T)
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.487	P=0.505N	P=0.750	P=0.750
POLY 3	P=0.506	P=0.505N	P=0.752	P=0.760N
POLY 1.5	P=0.505	P=0.502N	P=0.752	P=0.759N
POLY 6	P=0.504	P=0.506N	P=0.752	P=0.759
LOGISTIC REGRESSION	P=0.487	(e)	P=0.750	P=0.750
COCH-ARM / FISHERS	P=0.500	P=0.500N	P=0.753N	P=0.753N
ORDER RESTRICTED	P=0.530	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM

**Thyroid Gland: Follicular Cell  
 Adenoma**

**TUMOR RATES**

OVERALL (a)	3/50 (6%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	3/46.09	0/44.96	1/44.22	2/46.25
POLY-3 PERCENT (g)	6.5%	0%	2.3%	4.3%
TERMINAL (d)	2/39 (5%)	0/38 (0%)	1/37 (3%)	1/37 (3%)
FIRST INCIDENCE	705	---	731 (T)	686

**STATISTICAL TESTS**

LIFE TABLE	P=0.589	P=0.128N	P=0.325N	P=0.523N
POLY 3	P=0.602N	P=0.123N	P=0.320N	P=0.498N
POLY 1.5	P=0.605N	P=0.121N	P=0.320N	P=0.496N
POLY 6	P=0.602N	P=0.125N	P=0.320N	P=0.503N
LOGISTIC REGRESSION	P=0.605N	P=0.125N	P=0.318N	P=0.499N
COCH-ARM / FISHERS	P=0.607	P=0.121N	P=0.309N	P=0.500N
ORDER RESTRICTED	P=0.191N	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM

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

**TUMOR RATES**

OVERALL (a)	3/50 (6%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	3/46.09	1/44.96	1/44.22	2/46.25
POLY-3 PERCENT (g)	6.5%	2.2%	2.3%	4.3%
TERMINAL (d)	2/39 (5%)	1/38 (3%)	1/37 (3%)	1/37 (3%)
FIRST INCIDENCE	705	731 (T)	731 (T)	686

**STATISTICAL TESTS**

LIFE TABLE	P=0.519N	P=0.316N	P=0.325N	P=0.523N
POLY 3	P=0.497N	P=0.314N	P=0.320N	P=0.498N
POLY 1.5	P=0.498N	P=0.310N	P=0.320N	P=0.496N
POLY 6	P=0.497N	P=0.317N	P=0.320N	P=0.503N
LOGISTIC REGRESSION	P=0.499N	P=0.315N	P=0.318N	P=0.499N
COCH-ARM / FISHERS	P=0.500N	P=0.309N	P=0.309N	P=0.500N
ORDER RESTRICTED	P=0.296N	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>Uterus</b>				
<b>Polyp Stromal</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	3/50 (6%)	0/50 (0%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	3/45.99	0/44.96	3/44.27	0/46.07
POLY-3 PERCENT (g)	6.5%	0%	6.8%	0%
TERMINAL (d)	3/39 (8%)	0/38 (0%)	2/37 (5%)	0/37 (0%)
FIRST INCIDENCE	731 (T)	---	719	---
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.223N	P=0.126N	P=0.640	P=0.130N
POLY 3	P=0.200N	P=0.123N	P=0.645	P=0.118N
POLY 1.5	P=0.201N	P=0.121N	P=0.645	P=0.118N
POLY 6	P=0.201N	P=0.124N	P=0.646	P=0.120N
LOGISTIC REGRESSION	P=0.216N	(e)	P=0.646	(e)
COCH-ARM / FISHERS	P=0.208N	P=0.121N	P=0.661N	P=0.121N
ORDER RESTRICTED	P=0.054N	(e)	(e)	(e)



TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>All Organs</b>				
<b>Hemangiosarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	4/50 (8%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	4/46.09	0/44.96	0/44.22	0/46.07
POLY-3 PERCENT (g)	8.7%	0%	0%	0%
TERMINAL (d)	3/39 (8%)	0/38 (0%)	0/37 (0%)	0/37 (0%)
FIRST INCIDENCE	705	---	---	---
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.034N*	P=0.068N	P=0.072N	P=0.073N
POLY 3	P=0.027N*	P=0.063N	P=0.066N	P=0.060N
POLY 1.5	P=0.028N*	P=0.062N	P=0.066N	P=0.060N
POLY 6	P=0.026N*	P=0.065N	P=0.066N	P=0.062N
LOGISTIC REGRESSION	P=0.031N*	P=0.066N	P=0.067N	P=0.064N
COCH-ARM / FISHERS	P=0.030N*	P=0.059N	P=0.059N	P=0.059N
ORDER RESTRICTED	P=0.002N**	(e)	(e)	(e)

TDMS No. 88006-04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

ALPHA-METHYLSTYRENE

CAS Number: 98-83-9

Pathologist: GRUMBEIN, S.

Date Report Reqsted: 07/28/2005

Time Report Reqsted: 9:55:44

First Dose M/F: 07/30/01 / 07/30/01

Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM

All Organs  
Hemangiosarcoma or Hemangioma

TUMOR RATES	#	#	#	#
OVERALL (a)	5/50 (10%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	5/46.09	1/45.62	0/44.22	0/46.07
POLY-3 PERCENT (g)	10.9%	2.2%	0%	0%
TERMINAL (d)	4/39 (10%)	0/38 (0%)	0/37 (0%)	0/37 (0%)
FIRST INCIDENCE	705	509	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.014N*	P=0.112N	P=0.039N*	P=0.040N*
POLY 3	P=0.011N*	P=0.104N	P=0.034N*	P=0.031N*
POLY 1.5	P=0.011N*	P=0.103N	P=0.034N*	P=0.030N*
POLY 6	P=0.011N*	P=0.104N	P=0.034N*	P=0.031N*
LOGISTIC REGRESSION	P=0.012N*	P=0.102N	P=0.036N*	P=0.034N*
COCH-ARM / FISHERS	P=0.012N*	P=0.102N	P=0.028N*	P=0.028N*
ORDER RESTRICTED	P<0.001N**	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM
<b>All Organs</b>				
<b>Histiocytic Sarcoma</b>				
<b>TUMOR RATES</b>				
	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	1/46.38	1/45.06	3/44.48	1/46.07
POLY-3 PERCENT (g)	2.2%	2.2%	6.7%	2.2%
TERMINAL (d)	0/39 (0%)	0/38 (0%)	0/37 (0%)	1/37 (3%)
FIRST INCIDENCE	621	705	702	731 (T)
<b>STATISTICAL TESTS</b>				
LIFE TABLE	P=0.515	P=0.750	P=0.296	P=0.752
POLY 3	P=0.539	P=0.754	P=0.291	P=0.759
POLY 1.5	P=0.542	P=0.757	P=0.291	P=0.760N
POLY 6	P=0.531	P=0.752	P=0.291	P=0.756
LOGISTIC REGRESSION	P=0.536	P=0.762N	P=0.305	P=0.754
COCH-ARM / FISHERS	P=0.536	P=0.753N	P=0.309	P=0.753N
ORDER RESTRICTED	P=0.428	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	15/50 (30%)	6/50 (12%)	11/50 (22%)	4/50 (8%)
POLY-3 RATE (b)	15/48	6/45.29	11/44.54	4/46.07
POLY-3 PERCENT (g)	31.3%	13.3%	24.7%	8.7%
TERMINAL (d)	11/39 (28%)	5/38 (13%)	9/37 (24%)	4/37 (11%)
FIRST INCIDENCE	149	640	656	731 (T)

**STATISTICAL TESTS**

LIFE TABLE	P=0.028N*	P=0.033N*	P=0.304N	P=0.009N**
POLY 3	P=0.019N*	P=0.031N*	P=0.320N	P=0.005N**
POLY 1.5	P=0.019N*	P=0.028N*	P=0.311N	P=0.005N**
POLY 6	P=0.021N*	P=0.033N*	P=0.324N	P=0.006N**
LOGISTIC REGRESSION	P=0.020N*	P=0.023N*	P=0.252N	P=0.006N**
COCH-ARM / FISHERS	P=0.020N*	P=0.024N*	P=0.247N	P=0.005N**
ORDER RESTRICTED	P=0.002N**	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM

**All Organs  
 Benign Tumors**

**TUMOR RATES**

	#	#	#	#
OVERALL (a)	26/50 (52%)	29/50 (58%)	35/50 (70%)	27/50 (54%)
POLY-3 RATE (b)	26/46.86	29/46.89	35/45.17	27/47.85
POLY-3 PERCENT (g)	55.5%	61.9%	77.5%	56.4%
TERMINAL (d)	21/39 (54%)	22/38 (58%)	30/37 (81%)	22/37 (60%)
FIRST INCIDENCE	634	509	649	464

**STATISTICAL TESTS**

LIFE TABLE	P=0.357	P=0.315	P=0.034*	P=0.409
POLY 3	P=0.500	P=0.338	P=0.019*	P=0.546
POLY 1.5	P=0.497	P=0.343	P=0.021*	P=0.544
POLY 6	P=0.477	P=0.340	P=0.018*	P=0.532
LOGISTIC REGRESSION	P=0.470	P=0.302	P=0.022*	P=0.512
COCH-ARM / FISHERS	P=0.450	P=0.344	P=0.050*	P=0.500
ORDER RESTRICTED	P=0.192	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM

**All Organs  
 Malignant Tumors**

**TUMOR RATES**

	#	#	#	#
OVERALL (a)	29/50 (58%)	21/50 (42%)	22/50 (44%)	25/50 (50%)
POLY-3 RATE (b)	29/49.65	21/46.51	22/46.85	25/48
POLY-3 PERCENT (g)	58.4%	45.2%	47%	52.1%
TERMINAL (d)	19/39 (49%)	14/38 (37%)	13/37 (35%)	15/37 (41%)
FIRST INCIDENCE	149	537	416	612

**STATISTICAL TESTS**

LIFE TABLE	P=0.480N	P=0.144N	P=0.217N	P=0.377N
POLY 3	P=0.421N	P=0.136N	P=0.179N	P=0.336N
POLY 1.5	P=0.417N	P=0.115N	P=0.174N	P=0.313N
POLY 6	P=0.425N	P=0.154N	P=0.179N	P=0.354N
LOGISTIC REGRESSION	P=0.400N	P=0.078N	P=0.111N	P=0.281N
COCH-ARM / FISHERS	P=0.402N	P=0.081N	P=0.115N	P=0.274N
ORDER RESTRICTED	P=0.240N	(e)	(e)	(e)

TDMS No. 88006-04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 ALPHA-METHYLSTYRENE  
 CAS Number: 98-83-9  
 Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005  
 Time Report Requested: 9:55:44  
 First Dose M/F: 07/30/01 / 07/30/01  
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	600 PPM

**All Organs  
 Malignant and Benign Tumors**

**TUMOR RATES**

	#	#	#	#
OVERALL (a)	40/50 (80%)	36/50 (72%)	42/50 (84%)	41/50 (82%)
POLY-3 RATE (b)	40/49.65	36/47.73	42/47.08	41/49.37
POLY-3 PERCENT (g)	80.6%	75.4%	89.2%	83.1%
TERMINAL (d)	30/39 (77%)	27/38 (71%)	32/37 (87%)	29/37 (78%)
FIRST INCIDENCE	149	509	416	464

**STATISTICAL TESTS**

LIFE TABLE	P=0.222	P=0.363N	P=0.296	P=0.388
POLY 3	P=0.247	P=0.356N	P=0.183	P=0.476
POLY 1.5	P=0.240	P=0.322N	P=0.189	P=0.483
POLY 6	P=0.256	P=0.375N	P=0.191	P=0.475
LOGISTIC REGRESSION	P=0.258	P=0.245N	P=0.302	P=0.496
COCH-ARM / FISHERS	P=0.246	P=0.241N	P=0.398	P=0.500
ORDER RESTRICTED	P=0.228	(e)	(e)	(e)

TDMS No. 88006-04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

**P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

ALPHA-METHYLSTYRENE

CAS Number: 98-83-9

Pathologist: GRUMBEIN, S.

Date Report Requested: 07/28/2005

Time Report Requested: 9:55:44

First Dose M/F: 07/30/01 / 07/30/01

Lab: BNW

**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.
  - (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. The life table analysis regards tumors in animals dying prior to terminal kill as being (directly or indirectly) the cause of death.
  - (e) Value of Statistic cannot be computed.
  - (g) Poly-3 adjusted lifetime tumor incidence.
  - (I) Interim sacrifice
  - (T) Terminal sacrifice
  - # Tumor rates based on numbers of animals necropsied.
  - \* To the right of any statistical result, indicates significance at ( $P \leq 0.05$ ).
  - \*\* To the right of any statistical result, indicates significance at ( $P \leq 0.01$ ).
  - N Indicates a negative trend for all tests
- Logistic regression is an alternative method for analyzing the incidence of non-fatal tumors.  
The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

\*\*\* END OF REPORT \*\*\*