

TDMS No. 88006-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

ALPHA-METHYLSTYRENE

CAS Number: 98-83-9

Pathologist: RENNE, R.

Final 1 Rats

Date Report Reqsted: 11/29/2005

Time Report Reqsted: 13:37:24

First Dose M/F: 08/06/01 / 08/06/01

Lab: BNW

C Number: C88006B

Lock Date: 03/26/2004

Cage Range: 1 - 9999

Date Range: 1-JAN-1940 to 17-SEP-2040

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

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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
Lung
Ovary
Pituitary Gland
Spleen
Testes
Thymus
Thyroid Gland
Urinary Bladder

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

MALE RATS

<u>Organ</u>	<u>Morphology</u>
Mammary Gland	Fibroadenoma Fibroma, Fibroadenoma or Adenoma Fibroma, Fibroadenoma, Carcinoma, or Adenoma
Pituitary Gland: Pars Distalis or Unspecified Site	Adenoma Carcinoma or Adenoma
Testes	Adenoma
All Organs	Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated Mesothelioma: Benign, Malignant, NOS Mesothelioma: Malignant Malignant Tumors

FEMALE RATS

<u>Organ</u>	<u>Morphology</u>
Brain	Oligodendroglioma, Glioma, or Astrocytoma
Islets, Pancreatic	Adenoma Carcinoma or Adenoma
Uterus	Polyp Stromal Sarcoma Stromal or Polyp Stromal

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

Adrenal Cortex
Adenoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/42.01	0/44.96	2/42.27	0/40.08
POLY-3 PERCENT (g)	0%	0%	4.7%	0%
TERMINAL (d)	0/27 (0%)	0/32 (0%)	1/23 (4%)	0/22 (0%)
FIRST INCIDENCE	---	---	657	---

STATISTICAL TESTS

LIFE TABLE	P=0.719N	(e)	P=0.222	(e)
POLY 3	P=0.701N	(e)	P=0.238	(e)
POLY 1.5	P=0.693N	(e)	P=0.238	(e)
POLY 6	P=0.712N	(e)	P=0.237	(e)
LOGISTIC REGRESSION	P=0.687N	(e)	P=0.237	(e)
COCH-ARM / FISHERS	P=0.675N	(e)	P=0.247	(e)
ORDER RESTRICTED	P=0.248	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Adrenal Medulla
 Pheochromocytoma Benign**

TUMOR RATES

OVERALL (a)	8/50 (16%)	8/50 (16%)	10/50 (20%)	6/50 (12%)
POLY-3 RATE (b)	8/42.3	8/45.59	10/42.56	6/40.67
POLY-3 PERCENT (g)	18.9%	17.6%	23.5%	14.8%
TERMINAL (d)	6/27 (22%)	5/32 (16%)	6/23 (26%)	4/22 (18%)
FIRST INCIDENCE	682	603	652	646

STATISTICAL TESTS

LIFE TABLE	P=0.509N	P=0.461N	P=0.291	P=0.511N
POLY 3	P=0.368N	P=0.544N	P=0.401	P=0.416N
POLY 1.5	P=0.346N	P=0.569N	P=0.399	P=0.408N
POLY 6	P=0.393N	P=0.511N	P=0.396	P=0.422N
LOGISTIC REGRESSION	P=0.398N	P=0.519N	P=0.362	P=0.440N
COCH-ARM / FISHERS	P=0.302N	P=0.607N	P=0.398	P=0.387N
ORDER RESTRICTED	P=0.436N	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Adrenal Medulla
 Pheochromocytoma Malignant**

TUMOR RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/42.49	1/44.96	1/42	1/40.08
POLY-3 PERCENT (g)	4.7%	2.2%	2.4%	2.5%
TERMINAL (d)	1/27 (4%)	1/32 (3%)	1/23 (4%)	1/22 (5%)
FIRST INCIDENCE	587	729 (T)	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.589N	P=0.456N	P=0.537N	P=0.561N
POLY 3	P=0.526N	P=0.480N	P=0.504N	P=0.520N
POLY 1.5	P=0.517N	P=0.488N	P=0.502N	P=0.514N
POLY 6	P=0.538N	P=0.471N	P=0.510N	P=0.529N
LOGISTIC REGRESSION	P=0.527N	P=0.514N	P=0.500N	P=0.507N
COCH-ARM / FISHERS	P=0.500N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.425N	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

Adrenal Medulla
Pheochromocytoma: Benign, Complex, Malignant, NOS

TUMOR RATES

OVERALL (a)	10/50 (20%)	8/50 (16%)	11/50 (22%)	8/50 (16%)
POLY-3 RATE (b)	10/42.78	8/45.59	11/42.56	8/40.67
POLY-3 PERCENT (g)	23.4%	17.6%	25.8%	19.7%
TERMINAL (d)	7/27 (26%)	5/32 (16%)	7/23 (30%)	6/22 (27%)
FIRST INCIDENCE	587	603	652	646

STATISTICAL TESTS

LIFE TABLE	P=0.484	P=0.266N	P=0.376	P=0.548N
POLY 3	P=0.496N	P=0.339N	P=0.495	P=0.442N
POLY 1.5	P=0.466N	P=0.362N	P=0.496	P=0.428N
POLY 6	P=0.533N	P=0.311N	P=0.483	P=0.458N
LOGISTIC REGRESSION	P=0.520N	P=0.328N	P=0.482	P=0.453N
COCH-ARM / FISHERS	P=0.408N	P=0.398N	P=0.500	P=0.398N
ORDER RESTRICTED	P=0.536N	(e)	(e)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

Brain
Oligodendroglioma, Glioma, or Astrocytoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.01	1/45.21	0/42	0/40.08
POLY-3 PERCENT (g)	0%	2.2%	0%	0%
TERMINAL (d)	0/27 (0%)	0/32 (0%)	0/23 (0%)	0/22 (0%)
FIRST INCIDENCE	---	663	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.622N	P=0.516	(e)	(e)
POLY 3	P=0.595N	P=0.515	(e)	(e)
POLY 1.5	P=0.598N	P=0.509	(e)	(e)
POLY 6	P=0.591N	P=0.522	(e)	(e)
LOGISTIC REGRESSION	P=0.591N	P=0.473	(e)	(e)
COCH-ARM / FISHERS	P=0.601N	P=0.500	(e)	(e)
ORDER RESTRICTED	P=0.401N	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Clitoral/Preputial Gland
 Carcinoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/42.23	3/45.07	0/42	0/40.08
POLY-3 PERCENT (g)	4.7%	6.7%	0%	0%
TERMINAL (d)	0/27 (0%)	2/32 (6%)	0/23 (0%)	0/22 (0%)
FIRST INCIDENCE	702	700	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.129N	P=0.582	P=0.261N	P=0.253N
POLY 3	P=0.105N	P=0.530	P=0.238N	P=0.249N
POLY 1.5	P=0.104N	P=0.518	P=0.238N	P=0.245N
POLY 6	P=0.107N	P=0.544	P=0.241N	P=0.253N
LOGISTIC REGRESSION	P=0.114N	P=0.546	P=0.238N	P=0.249N
COCH-ARM / FISHERS	P=0.101N	P=0.500	P=0.247N	P=0.247N
ORDER RESTRICTED	P=0.098N	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

Islets, Pancreatic
Adenoma

TUMOR RATES

OVERALL (a)	3/50 (6%)	6/50 (12%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	3/42.57	6/45.1	3/42.21	1/40.08
POLY-3 PERCENT (g)	7.1%	13.3%	7.1%	2.5%
TERMINAL (d)	2/27 (7%)	4/32 (13%)	2/23 (9%)	1/22 (5%)
FIRST INCIDENCE	554	700	674	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.173N	P=0.334	P=0.624	P=0.362N
POLY 3	P=0.124N	P=0.270	P=0.659	P=0.327N
POLY 1.5	P=0.118N	P=0.260	P=0.660	P=0.320N
POLY 6	P=0.132N	P=0.285	P=0.654	P=0.335N
LOGISTIC REGRESSION	P=0.129N	P=0.276	P=0.663	P=0.314N
COCH-ARM / FISHERS	P=0.106N	P=0.243	P=0.661N	P=0.309N
ORDER RESTRICTED	P=0.146N	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM
Islets, Pancreatic Carcinoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/42.01	2/45.22	1/42	1/40.08
POLY-3 PERCENT (g)	2.4%	4.4%	2.4%	2.5%
TERMINAL (d)	1/27 (4%)	1/32 (3%)	1/23 (4%)	1/22 (5%)
FIRST INCIDENCE	729 (T)	660	729 (T)	729 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.634N	P=0.548	P=0.726	P=0.716
POLY 3	P=0.566N	P=0.526	P=0.761	P=0.751
POLY 1.5	P=0.559N	P=0.515	P=0.761	P=0.753
POLY 6	P=0.573N	P=0.539	P=0.759	P=0.747
LOGISTIC REGRESSION	P=0.593N	P=0.525	P=0.726	P=0.716
COCH-ARM / FISHERS	P=0.546N	P=0.500	P=0.753N	P=0.753N
ORDER RESTRICTED	P=0.616N	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Islets, Pancreatic
 Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	4/50 (8%)	8/50 (16%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	4/42.57	8/45.36	4/42.21	2/40.08
POLY-3 PERCENT (g)	9.4%	17.6%	9.5%	5%
TERMINAL (d)	3/27 (11%)	5/32 (16%)	3/23 (13%)	2/22 (9%)
FIRST INCIDENCE	554	660	674	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.195N	P=0.270	P=0.587	P=0.418N
POLY 3	P=0.131N	P=0.207	P=0.639	P=0.365N
POLY 1.5	P=0.123N	P=0.195	P=0.640	P=0.356N
POLY 6	P=0.142N	P=0.225	P=0.634	P=0.375N
LOGISTIC REGRESSION	P=0.140N	P=0.211	P=0.643	P=0.359N
COCH-ARM / FISHERS	P=0.109N	P=0.178	P=0.643N	P=0.339N
ORDER RESTRICTED	P=0.158N	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Kidney: Renal Tubule
 Carcinoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/42.01	0/44.96	1/42	2/40.32
POLY-3 PERCENT (g)	0%	0%	2.4%	5%
TERMINAL (d)	0/27 (0%)	0/32 (0%)	1/23 (4%)	0/22 (0%)
FIRST INCIDENCE	---	---	729 (T)	688

STATISTICAL TESTS

LIFE TABLE	P=0.069	(e)	P=0.468	P=0.228
POLY 3	P=0.079	(e)	P=0.500	P=0.228
POLY 1.5	P=0.083	(e)	P=0.500	P=0.230
POLY 6	P=0.076	(e)	P=0.498	P=0.225
LOGISTIC REGRESSION	P=0.074	(e)	P=0.468	P=0.227
COCH-ARM / FISHERS	P=0.090	(e)	P=0.500	P=0.247
ORDER RESTRICTED	P=0.068	(e)	(e)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

Kidney: Renal Tubule
Carcinoma or Adenoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	0/42.01	0/44.96	2/42.05	2/40.32
POLY-3 PERCENT (g)	0%	0%	4.8%	5%
TERMINAL (d)	0/27 (0%)	0/32 (0%)	1/23 (4%)	0/22 (0%)
FIRST INCIDENCE	---	---	716	688

STATISTICAL TESTS

LIFE TABLE	P=0.100	(e)	P=0.210	P=0.228
POLY 3	P=0.117	(e)	P=0.237	P=0.228
POLY 1.5	P=0.123	(e)	P=0.237	P=0.230
POLY 6	P=0.111	(e)	P=0.235	P=0.225
LOGISTIC REGRESSION	P=0.112	(e)	P=0.221	P=0.227
COCH-ARM / FISHERS	P=0.136	(e)	P=0.247	P=0.247
ORDER RESTRICTED	P=0.108	(e)	(e)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

Mammary Gland
Carcinoma

TUMOR RATES

	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.01	0/44.96	0/42	0/40.08
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/32 (0%)	0/23 (0%)	0/22 (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. 88006-03

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Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

ALPHA-METHYLSTYRENE

CAS Number: 98-83-9

Pathologist: RENNE, R.

Date Report Requested: 11/29/2005

Time Report Requested: 13:37:24

First Dose M/F: 08/06/01 / 08/06/01

Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

Mammary Gland
Carcinoma or Adenoma

TUMOR RATES

	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.01	0/44.96	0/42	0/40.08
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/32 (0%)	0/23 (0%)	0/22 (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. 88006-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

ALPHA-METHYLSTYRENE

CAS Number: 98-83-9

Pathologist: RENNE, R.

Date Report Reqsted: 11/29/2005

Time Report Reqsted: 13:37:24

First Dose M/F: 08/06/01 / 08/06/01

Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

Mammary Gland
Fibroadenoma

TUMOR RATES

	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	1/42.01	0/44.96	3/42.28	4/40.6
POLY-3 PERCENT (g)	2.4%	0%	7.1%	9.9%
TERMINAL (d)	1/27 (4%)	0/32 (0%)	2/23 (9%)	2/22 (9%)
FIRST INCIDENCE	729 (T)	---	652	653

STATISTICAL TESTS

LIFE TABLE	P=0.029*	P=0.466N	P=0.268	P=0.143
POLY 3	P=0.041*	P=0.486N	P=0.307	P=0.167
POLY 1.5	P=0.045*	P=0.492N	P=0.306	P=0.170
POLY 6	P=0.038*	P=0.480N	P=0.305	P=0.165
LOGISTIC REGRESSION	P=0.041*	(e)	P=0.299	P=0.163
COCH-ARM / FISHERS	P=0.053	P=0.500N	P=0.309	P=0.181
ORDER RESTRICTED	P=0.045*	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM
Mammary Gland Fibroma, Fibroadenoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	1/42.01	0/44.96	3/42.28	4/40.6
POLY-3 PERCENT (g)	2.4%	0%	7.1%	9.9%
TERMINAL (d)	1/27 (4%)	0/32 (0%)	2/23 (9%)	2/22 (9%)
FIRST INCIDENCE	729 (T)	---	652	653
STATISTICAL TESTS				
LIFE TABLE	P=0.029*	P=0.466N	P=0.268	P=0.143
POLY 3	P=0.041*	P=0.486N	P=0.307	P=0.167
POLY 1.5	P=0.045*	P=0.492N	P=0.306	P=0.170
POLY 6	P=0.038*	P=0.480N	P=0.305	P=0.165
LOGISTIC REGRESSION	P=0.041*	(e)	P=0.299	P=0.163
COCH-ARM / FISHERS	P=0.053	P=0.500N	P=0.309	P=0.181
ORDER RESTRICTED	P=0.045*	(e)	(e)	(e)

TDMS No. 88006-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

ALPHA-METHYLSTYRENE

CAS Number: 98-83-9

Pathologist: RENNE, R.

Date Report Requested: 11/29/2005

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First Dose M/F: 08/06/01 / 08/06/01

Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

Mammary Gland
Fibroma, Fibroadenoma, Carcinoma, or Adenoma

TUMOR RATES

	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	1/42.01	0/44.96	3/42.28	4/40.6
POLY-3 PERCENT (g)	2.4%	0%	7.1%	9.9%
TERMINAL (d)	1/27 (4%)	0/32 (0%)	2/23 (9%)	2/22 (9%)
FIRST INCIDENCE	729 (T)	---	652	653

STATISTICAL TESTS

LIFE TABLE	P=0.029*	P=0.466N	P=0.268	P=0.143
POLY 3	P=0.041*	P=0.486N	P=0.307	P=0.167
POLY 1.5	P=0.045*	P=0.492N	P=0.306	P=0.170
POLY 6	P=0.038*	P=0.480N	P=0.305	P=0.165
LOGISTIC REGRESSION	P=0.041*	(e)	P=0.299	P=0.163
COCH-ARM / FISHERS	P=0.053	P=0.500N	P=0.309	P=0.181
ORDER RESTRICTED	P=0.045*	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Reqsted: 11/29/2005
 Time Report Reqsted: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

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

TUMOR RATES

OVERALL (a)	34/49 (69%)	36/49 (73%)	34/49 (69%)	24/49 (49%)
POLY-3 RATE (b)	34/45.18	36/47.2	34/44.96	24/42.08
POLY-3 PERCENT (g)	75.3%	76.3%	75.6%	57%
TERMINAL (d)	19/27 (70%)	25/32 (78%)	20/23 (87%)	15/21 (71%)
FIRST INCIDENCE	522	603	558	401

STATISTICAL TESTS

LIFE TABLE	P=0.259N	P=0.350N	P=0.349	P=0.244N
POLY 3	P=0.015N*	P=0.553	P=0.585	P=0.047N*
POLY 1.5	P=0.010N**	P=0.502	P=0.586	P=0.039N*
POLY 6	P=0.029N*	P=0.595	P=0.547	P=0.070N
LOGISTIC REGRESSION	P=0.019N*	P=0.581N	P=0.551N	P=0.049N*
COCH-ARM / FISHERS	P=0.005N**	P=0.412	P=0.587N	P=0.032N*
ORDER RESTRICTED	P=0.029N*	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

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

TUMOR RATES

OVERALL (a)	34/49 (69%)	37/49 (76%)	35/49 (71%)	24/49 (49%)
POLY-3 RATE (b)	34/45.18	37/47.6	35/44.96	24/42.08
POLY-3 PERCENT (g)	75.3%	77.7%	77.9%	57%
TERMINAL (d)	19/27 (70%)	25/32 (78%)	21/23 (91%)	15/21 (71%)
FIRST INCIDENCE	522	603	558	401

STATISTICAL TESTS

LIFE TABLE	P=0.236N	P=0.411N	P=0.285	P=0.244N
POLY 3	P=0.011N*	P=0.485	P=0.482	P=0.047N*
POLY 1.5	P=0.007N**	P=0.424	P=0.490	P=0.039N*
POLY 6	P=0.024N*	P=0.546	P=0.433	P=0.070N
LOGISTIC REGRESSION	P=0.013N*	P=0.493	P=0.546	P=0.049N*
COCH-ARM / FISHERS	P=0.004N**	P=0.326	P=0.500	P=0.032N*
ORDER RESTRICTED	P=0.019N*	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM
Skin				
Basal Cell Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/42.01	3/45.21	1/42	0/40.08
POLY-3 PERCENT (g)	2.4%	6.6%	2.4%	0%
TERMINAL (d)	1/27 (4%)	2/32 (6%)	1/23 (4%)	0/22 (0%)
FIRST INCIDENCE	729 (T)	663	729 (T)	---
STATISTICAL TESTS				
LIFE TABLE	P=0.228N	P=0.360	P=0.726	P=0.541N
POLY 3	P=0.186N	P=0.332	P=0.761	P=0.509N
POLY 1.5	P=0.183N	P=0.321	P=0.761	P=0.507N
POLY 6	P=0.190N	P=0.346	P=0.759	P=0.513N
LOGISTIC REGRESSION	P=0.201N	P=0.340	P=0.726	(e)
COCH-ARM / FISHERS	P=0.177N	P=0.309	P=0.753N	P=0.500N
ORDER RESTRICTED	P=0.175N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	3/50 (6%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/42.01	3/45.21	2/42	1/40.08
POLY-3 PERCENT (g)	2.4%	6.6%	4.8%	2.5%
TERMINAL (d)	1/27 (4%)	2/32 (6%)	2/23 (9%)	1/22 (5%)
FIRST INCIDENCE	729 (T)	663	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.527N	P=0.360	P=0.444	P=0.716
POLY 3	P=0.448N	P=0.332	P=0.500	P=0.751
POLY 1.5	P=0.440N	P=0.321	P=0.500	P=0.753
POLY 6	P=0.458N	P=0.346	P=0.497	P=0.747
LOGISTIC REGRESSION	P=0.482N	P=0.340	P=0.444	P=0.716
COCH-ARM / FISHERS	P=0.422N	P=0.309	P=0.500	P=0.753N
ORDER RESTRICTED	P=0.475	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM
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)	2/50 (4%)	3/50 (6%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	2/42.01	3/45.21	3/42.21	4/40.72
POLY-3 PERCENT (g)	4.8%	6.6%	7.1%	9.8%
TERMINAL (d)	2/27 (7%)	2/32 (6%)	2/23 (9%)	1/22 (5%)
FIRST INCIDENCE	729 (T)	663	674	646
STATISTICAL TESTS				
LIFE TABLE	P=0.209	P=0.569	P=0.449	P=0.278
POLY 3	P=0.279	P=0.533	P=0.502	P=0.322
POLY 1.5	P=0.289	P=0.520	P=0.501	P=0.325
POLY 6	P=0.270	P=0.551	P=0.500	P=0.321
LOGISTIC REGRESSION	P=0.263	P=0.553	P=0.480	P=0.313
COCH-ARM / FISHERS	P=0.310	P=0.500	P=0.500	P=0.339
ORDER RESTRICTED	P=0.299	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Reqsted: 11/29/2005
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 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM
Skin Fibroma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	0/50 (0%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	4/43.1	0/44.96	4/42.18	4/40.63
POLY-3 PERCENT (g)	9.3%	0%	9.5%	9.9%
TERMINAL (d)	1/27 (4%)	0/32 (0%)	2/23 (9%)	3/22 (14%)
FIRST INCIDENCE	590	---	705	562
STATISTICAL TESTS				
LIFE TABLE	P=0.216	P=0.053N	P=0.598	P=0.567
POLY 3	P=0.261	P=0.055N	P=0.632	P=0.611
POLY 1.5	P=0.278	P=0.057N	P=0.637	P=0.622
POLY 6	P=0.242	P=0.053N	P=0.620	P=0.597
LOGISTIC REGRESSION	P=0.299	P=0.081N	P=0.644	P=0.642N
COCH-ARM / FISHERS	P=0.310	P=0.059N	P=0.643N	P=0.643N
ORDER RESTRICTED	P=0.274	(e)	(e)	(e)

TDMS No. 88006-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

ALPHA-METHYLSTYRENE

CAS Number: 98-83-9

Pathologist: RENNE, R.

Date Report Reqsted: 11/29/2005

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First Dose M/F: 08/06/01 / 08/06/01

Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	5/50 (10%)	1/50 (2%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	5/43.1	1/44.96	4/42.18	4/40.63
POLY-3 PERCENT (g)	11.6%	2.2%	9.5%	9.9%
TERMINAL (d)	2/27 (7%)	1/32 (3%)	2/23 (9%)	3/22 (14%)
FIRST INCIDENCE	590	729 (T)	705	562

STATISTICAL TESTS

LIFE TABLE	P=0.359	P=0.080N	P=0.552N	P=0.586N
POLY 3	P=0.430	P=0.091N	P=0.514N	P=0.537N
POLY 1.5	P=0.449	P=0.095N	P=0.508N	P=0.524N
POLY 6	P=0.408	P=0.087N	P=0.529N	P=0.554N
LOGISTIC REGRESSION	P=0.460	P=0.113N	P=0.500N	P=0.505N
COCH-ARM / FISHERS	P=0.486	P=0.102N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.358N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
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 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM
Skin				
Keratoacanthoma				
TUMOR RATES				
	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/42.01	0/44.96	0/42	2/40.45
POLY-3 PERCENT (g)	2.4%	0%	0%	4.9%
TERMINAL (d)	1/27 (4%)	0/32 (0%)	0/23 (0%)	0/22 (0%)
FIRST INCIDENCE	729 (T)	---	---	646
STATISTICAL TESTS				
LIFE TABLE	P=0.147	P=0.466N	P=0.532N	P=0.456
POLY 3	P=0.171	P=0.486N	P=0.500N	P=0.487
POLY 1.5	P=0.176	P=0.492N	P=0.500N	P=0.490
POLY 6	P=0.166	P=0.480N	P=0.502N	P=0.484
LOGISTIC REGRESSION	P=0.171	(e)	(e)	P=0.485
COCH-ARM / FISHERS	P=0.186	P=0.500N	P=0.500N	P=0.500
ORDER RESTRICTED	P=0.120	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

Skin
 Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/42.01	0/44.96	1/42	2/40.36
POLY-3 PERCENT (g)	0%	0%	2.4%	5%
TERMINAL (d)	0/27 (0%)	0/32 (0%)	1/23 (4%)	1/22 (5%)
FIRST INCIDENCE	---	---	729 (T)	656

STATISTICAL TESTS

LIFE TABLE	P=0.063	(e)	P=0.468	P=0.212
POLY 3	P=0.079	(e)	P=0.500	P=0.228
POLY 1.5	P=0.083	(e)	P=0.500	P=0.230
POLY 6	P=0.076	(e)	P=0.498	P=0.225
LOGISTIC REGRESSION	P=0.076	(e)	P=0.468	P=0.229
COCH-ARM / FISHERS	P=0.090	(e)	P=0.500	P=0.247
ORDER RESTRICTED	P=0.068	(e)	(e)	(e)

TDMS No. 88006-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

ALPHA-METHYLSTYRENE

CAS Number: 98-83-9

Pathologist: RENNE, R.

Date Report Reqsted: 11/29/2005

Time Report Reqsted: 13:37:24

First Dose M/F: 08/06/01 / 08/06/01

Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

Skin
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/42.01	0/44.96	1/42.21	3/40.72
POLY-3 PERCENT (g)	2.4%	0%	2.4%	7.4%
TERMINAL (d)	1/27 (4%)	0/32 (0%)	0/23 (0%)	0/22 (0%)
FIRST INCIDENCE	729 (T)	---	674	646

STATISTICAL TESTS

LIFE TABLE	P=0.059	P=0.466N	P=0.752	P=0.271
POLY 3	P=0.071	P=0.486N	P=0.760N	P=0.293
POLY 1.5	P=0.074	P=0.492N	P=0.760N	P=0.296
POLY 6	P=0.068	P=0.480N	P=0.761N	P=0.292
LOGISTIC REGRESSION	P=0.078	(e)	P=0.762	P=0.295
COCH-ARM / FISHERS	P=0.082	P=0.500N	P=0.753N	P=0.309
ORDER RESTRICTED	P=0.073	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Skin
 Squamous Cell Papilloma, Papilloma, or Keratoacanthoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/42.01	0/44.96	1/42.21	2/40.45
POLY-3 PERCENT (g)	2.4%	0%	2.4%	4.9%
TERMINAL (d)	1/27 (4%)	0/32 (0%)	0/23 (0%)	0/22 (0%)
FIRST INCIDENCE	729 (T)	---	674	646

STATISTICAL TESTS

LIFE TABLE	P=0.193	P=0.466N	P=0.752	P=0.456
POLY 3	P=0.217	P=0.486N	P=0.760N	P=0.487
POLY 1.5	P=0.224	P=0.492N	P=0.760N	P=0.490
POLY 6	P=0.209	P=0.480N	P=0.761N	P=0.484
LOGISTIC REGRESSION	P=0.226	(e)	P=0.762	P=0.485
COCH-ARM / FISHERS	P=0.238	P=0.500N	P=0.753N	P=0.500
ORDER RESTRICTED	P=0.207	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Reqsted: 11/29/2005
 Time Report Reqsted: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM
Testes				
Adenoma				
TUMOR RATES				
OVERALL (a)	33/50 (66%)	44/50 (88%)	41/50 (82%)	44/50 (88%)
POLY-3 RATE (b)	33/44.93	44/48.53	41/46.75	44/45.95
POLY-3 PERCENT (g)	73.4%	90.7%	87.7%	95.8%
TERMINAL (d)	22/27 (82%)	31/32 (97%)	23/23 (100%)	22/22 (100%)
FIRST INCIDENCE	548	562	560	519
STATISTICAL TESTS				
LIFE TABLE	P=0.003**	P=0.228	P=0.034*	P=0.005**
POLY 3	P=0.007**	P=0.017*	P=0.053	P<0.001**
POLY 1.5	P=0.011*	P=0.012*	P=0.048*	P<0.001**
POLY 6	P=0.006**	P=0.030*	P=0.065	P<0.001**
LOGISTIC REGRESSION	P=0.002**	P=0.025*	P=0.047*	P<0.001**
COCH-ARM / FISHERS	P=0.046*	P=0.008**	P=0.055	P=0.008**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

Thyroid Gland: C-Cell
 Adenoma

TUMOR RATES

OVERALL (a)	3/49 (6%)	7/50 (14%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	3/42.17	7/45.54	4/42.16	2/40.34
POLY-3 PERCENT (g)	7.1%	15.4%	9.5%	5%
TERMINAL (d)	0/26 (0%)	5/32 (16%)	3/23 (13%)	1/22 (5%)
FIRST INCIDENCE	587	612	688	660

STATISTICAL TESTS

LIFE TABLE	P=0.275N	P=0.236	P=0.473	P=0.549N
POLY 3	P=0.212N	P=0.189	P=0.500	P=0.520N
POLY 1.5	P=0.200N	P=0.181	P=0.505	P=0.510N
POLY 6	P=0.227N	P=0.200	P=0.487	P=0.533N
LOGISTIC REGRESSION	P=0.193N	P=0.142	P=0.511	P=0.470N
COCH-ARM / FISHERS	P=0.179N	P=0.167	P=0.511	P=0.490N
ORDER RESTRICTED	P=0.255N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Thyroid Gland: C-Cell
 Carcinoma**

TUMOR RATES

OVERALL (a)	0/49 (0%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.01	2/44.96	1/42	0/40.08
POLY-3 PERCENT (g)	0%	4.5%	2.4%	0%
TERMINAL (d)	0/26 (0%)	2/32 (6%)	1/23 (4%)	0/22 (0%)
FIRST INCIDENCE	---	729 (T)	729 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.447N	P=0.285	P=0.476	(e)
POLY 3	P=0.389N	P=0.258	P=0.505	(e)
POLY 1.5	P=0.387N	P=0.252	P=0.504	(e)
POLY 6	P=0.391N	P=0.266	P=0.503	(e)
LOGISTIC REGRESSION	(e)	P=0.285	P=0.476	(e)
COCH-ARM / FISHERS	P=0.380N	P=0.253	P=0.505	(e)
ORDER RESTRICTED	P=0.341	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

Thyroid Gland: C-Cell
 Carcinoma or Adenoma

TUMOR RATES

OVERALL (a)	3/49 (6%)	9/50 (18%)	5/50 (10%)	2/50 (4%)
POLY-3 RATE (b)	3/42.17	9/45.54	5/42.16	2/40.34
POLY-3 PERCENT (g)	7.1%	19.8%	11.9%	5%
TERMINAL (d)	0/26 (0%)	7/32 (22%)	4/23 (17%)	1/22 (5%)
FIRST INCIDENCE	587	612	688	660

STATISTICAL TESTS

LIFE TABLE	P=0.203N	P=0.114	P=0.328	P=0.549N
POLY 3	P=0.141N	P=0.077	P=0.355	P=0.520N
POLY 1.5	P=0.132N	P=0.072	P=0.361	P=0.510N
POLY 6	P=0.154N	P=0.083	P=0.342	P=0.533N
LOGISTIC REGRESSION	P=0.135N	P=0.061	P=0.367	P=0.470N
COCH-ARM / FISHERS	P=0.116N	P=0.065	P=0.369	P=0.490N
ORDER RESTRICTED	P=0.163N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Thyroid Gland: Follicular Cell
 Adenoma**

TUMOR RATES

OVERALL (a)	0/49 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/41.01	1/44.96	2/42.27	1/40.16
POLY-3 PERCENT (g)	0%	2.2%	4.7%	2.5%
TERMINAL (d)	0/26 (0%)	1/32 (3%)	1/23 (4%)	0/22 (0%)
FIRST INCIDENCE	---	729 (T)	656	709

STATISTICAL TESTS

LIFE TABLE	P=0.466	P=0.541	P=0.229	P=0.485
POLY 3	P=0.499	P=0.518	P=0.244	P=0.496
POLY 1.5	P=0.509	P=0.513	P=0.243	P=0.498
POLY 6	P=0.489	P=0.526	P=0.243	P=0.494
LOGISTIC REGRESSION	P=0.501	P=0.541	P=0.242	P=0.492
COCH-ARM / FISHERS	P=0.529	P=0.505	P=0.253	P=0.505
ORDER RESTRICTED	P=0.232	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Thyroid Gland: Follicular Cell
 Carcinoma**

TUMOR RATES

OVERALL (a)	0/49 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/41.01	0/44.96	1/42	2/40.19
POLY-3 PERCENT (g)	0%	0%	2.4%	5%
TERMINAL (d)	0/26 (0%)	0/32 (0%)	1/23 (4%)	1/22 (5%)
FIRST INCIDENCE	---	---	729 (T)	702

STATISTICAL TESTS

LIFE TABLE	P=0.062	(e)	P=0.476	P=0.214
POLY 3	P=0.080	(e)	P=0.505	P=0.232
POLY 1.5	P=0.084	(e)	P=0.504	P=0.235
POLY 6	P=0.076	(e)	P=0.503	P=0.230
LOGISTIC REGRESSION	P=0.070	(e)	P=0.476	P=0.226
COCH-ARM / FISHERS	P=0.091	(e)	P=0.505	P=0.253
ORDER RESTRICTED	P=0.071	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

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

TUMOR RATES

OVERALL (a)	0/49 (0%)	1/50 (2%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	0/41.01	1/44.96	3/42.27	3/40.27
POLY-3 PERCENT (g)	0%	2.2%	7.1%	7.5%
TERMINAL (d)	0/26 (0%)	1/32 (3%)	2/23 (9%)	1/22 (5%)
FIRST INCIDENCE	---	729 (T)	656	702

STATISTICAL TESTS

LIFE TABLE	P=0.077	P=0.541	P=0.110	P=0.106
POLY 3	P=0.102	P=0.518	P=0.123	P=0.115
POLY 1.5	P=0.108	P=0.513	P=0.123	P=0.117
POLY 6	P=0.096	P=0.526	P=0.123	P=0.113
LOGISTIC REGRESSION	P=0.093	P=0.541	P=0.123	P=0.112
COCH-ARM / FISHERS	P=0.121	P=0.505	P=0.125	P=0.125
ORDER RESTRICTED	P=0.073	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
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 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM
Zymbal's Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/42.01	1/45.33	1/42.55	2/40.74
POLY-3 PERCENT (g)	0%	2.2%	2.4%	4.9%
TERMINAL (d)	0/27 (0%)	0/32 (0%)	0/23 (0%)	0/22 (0%)
FIRST INCIDENCE	---	624	560	562
STATISTICAL TESTS				
LIFE TABLE	P=0.184	P=0.519	P=0.513	P=0.236
POLY 3	P=0.187	P=0.515	P=0.503	P=0.230
POLY 1.5	P=0.191	P=0.509	P=0.501	P=0.232
POLY 6	P=0.183	P=0.523	P=0.502	P=0.229
LOGISTIC REGRESSION	P=0.267	P=0.428	P=0.531	P=0.254
COCH-ARM / FISHERS	P=0.200	P=0.500	P=0.500	P=0.247
ORDER RESTRICTED	P=0.112	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 ALPHA-METHYLSTYRENE
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Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
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 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	26/50 (52%)	32/50 (64%)	29/50 (58%)	38/50 (76%)
POLY-3 RATE (b)	26/44.33	32/47.26	29/46.86	38/47.38
POLY-3 PERCENT (g)	58.7%	67.7%	61.9%	80.2%
TERMINAL (d)	17/27 (63%)	23/32 (72%)	12/23 (52%)	14/22 (64%)
FIRST INCIDENCE	495	562	558	401

STATISTICAL TESTS

LIFE TABLE	P=0.003**	P=0.476	P=0.242	P=0.011*
POLY 3	P=0.018*	P=0.239	P=0.459	P=0.016*
POLY 1.5	P=0.013*	P=0.202	P=0.398	P=0.010**
POLY 6	P=0.033*	P=0.293	P=0.547	P=0.036*
LOGISTIC REGRESSION	P=0.007**	P=0.263	P=0.343	P=0.006**
COCH-ARM / FISHERS	P=0.015*	P=0.156	P=0.344	P=0.011*
ORDER RESTRICTED	P=0.015*	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

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 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

All Organs
 Mesothelioma: Benign, Malignant, NOS

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	0/42.01	2/44.96	0/42	3/40.14
POLY-3 PERCENT (g)	0%	4.5%	0%	7.5%
TERMINAL (d)	0/27 (0%)	2/32 (6%)	0/23 (0%)	2/22 (9%)
FIRST INCIDENCE	---	729 (T)	---	714

STATISTICAL TESTS

LIFE TABLE	P=0.058	P=0.276	(e)	P=0.091
POLY 3	P=0.092	P=0.252	(e)	P=0.110
POLY 1.5	P=0.095	P=0.246	(e)	P=0.113
POLY 6	P=0.089	P=0.260	(e)	P=0.107
LOGISTIC REGRESSION	P=0.065	P=0.276	(e)	P=0.100
COCH-ARM / FISHERS	P=0.101	P=0.247	(e)	P=0.121
ORDER RESTRICTED	P=0.033*	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
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 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM

**All Organs
 Mesothelioma: Malignant**

TUMOR RATES

	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	0/42.01	2/44.96	0/42	3/40.14
POLY-3 PERCENT (g)	0%	4.5%	0%	7.5%
TERMINAL (d)	0/27 (0%)	2/32 (6%)	0/23 (0%)	2/22 (9%)
FIRST INCIDENCE	---	729 (T)	---	714

STATISTICAL TESTS

LIFE TABLE	P=0.058	P=0.276	(e)	P=0.091
POLY 3	P=0.092	P=0.252	(e)	P=0.110
POLY 1.5	P=0.095	P=0.246	(e)	P=0.113
POLY 6	P=0.089	P=0.260	(e)	P=0.107
LOGISTIC REGRESSION	P=0.065	P=0.276	(e)	P=0.100
COCH-ARM / FISHERS	P=0.101	P=0.247	(e)	P=0.121
ORDER RESTRICTED	P=0.033*	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 ALPHA-METHYLSTYRENE
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 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM
All Organs				
Benign Tumors				
TUMOR RATES				
	#	#	#	#
OVERALL (a)	48/50 (96%)	49/50 (98%)	48/50 (96%)	47/50 (94%)
POLY-3 RATE (b)	48/48.42	49/49.38	48/48.49	47/47.6
POLY-3 PERCENT (g)	99.1%	99.2%	99%	98.8%
TERMINAL (d)	27/27 (100%)	32/32 (100%)	23/23 (100%)	22/22 (100%)
FIRST INCIDENCE	522	562	558	401
STATISTICAL TESTS				
LIFE TABLE	P=0.099	P=0.198N	P=0.324	P=0.257
POLY 3	P=0.748N	P=0.969	P=0.948N	P=0.919N
POLY 1.5	P=0.560N	P=0.788	P=0.839	P=0.754N
POLY 6	P=0.983N	P=1.000N	P=1.000N	P=1.000N
LOGISTIC REGRESSION	P=0.384	P=0.377N	P=0.433N	P=0.638
COCH-ARM / FISHERS	P=0.306N	P=0.500	P=0.691N	P=0.500N
ORDER RESTRICTED	P=0.567N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM
All Organs				
Malignant Tumors				
TUMOR RATES				
	#	#	#	#
OVERALL (a)	32/50 (64%)	39/50 (78%)	32/50 (64%)	38/50 (76%)
POLY-3 RATE (b)	32/46.29	39/48.66	32/46.91	38/47.38
POLY-3 PERCENT (g)	69.1%	80.2%	68.2%	80.2%
TERMINAL (d)	19/27 (70%)	25/32 (78%)	14/23 (61%)	14/22 (64%)
FIRST INCIDENCE	345	562	558	401
STATISTICAL TESTS				
LIFE TABLE	P=0.049*	P=0.460	P=0.397	P=0.085
POLY 3	P=0.226	P=0.148	P=0.553N	P=0.150
POLY 1.5	P=0.204	P=0.118	P=0.582N	P=0.124
POLY 6	P=0.287	P=0.207	P=0.503N	P=0.220
LOGISTIC REGRESSION	P=0.178	P=0.121	P=0.582	P=0.114
COCH-ARM / FISHERS	P=0.237	P=0.093	P=0.582N	P=0.138
ORDER RESTRICTED	P=0.157	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	100 PPM	300 PPM	1000 PPM
All Organs				
Malignant and Benign Tumors				
TUMOR RATES				
	#	#	#	#
OVERALL (a)	50/50 (100%)	49/50 (98%)	48/50 (96%)	48/50 (96%)
POLY-3 RATE (b)	50/50	49/49.38	48/48.49	48/48.15
POLY-3 PERCENT (g)	100%	99.2%	99%	99.7%
TERMINAL (d)	27/27 (100%)	32/32 (100%)	23/23 (100%)	22/22 (100%)
FIRST INCIDENCE	345	562	558	401
STATISTICAL TESTS				
LIFE TABLE	P=0.105	P=0.126N	P=0.438	P=0.311
POLY 3	P=0.915	P=0.945N	P=0.863N	P=1.000N
POLY 1.5	P=0.699N	P=0.730N	P=0.589N	P=0.898N
POLY 6	P=0.999	P=1.000N	P=1.000N	P=1.000N
LOGISTIC REGRESSION	P=0.686	P=0.287N	P=0.258N	P=0.479N
COCH-ARM / FISHERS	P=0.243N	P=0.500N	P=0.247N	P=0.247N
ORDER RESTRICTED	P=0.345N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM
Adrenal Cortex Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	2/40.18	0/41.68	0/45.12	3/43
POLY-3 PERCENT (g)	5%	0%	0%	7%
TERMINAL (d)	1/27 (4%)	0/24 (0%)	0/36 (0%)	2/26 (8%)
FIRST INCIDENCE	687	---	---	581
STATISTICAL TESTS				
LIFE TABLE	P=0.144	P=0.263N	P=0.194N	P=0.498
POLY 3	P=0.149	P=0.229N	P=0.212N	P=0.531
POLY 1.5	P=0.148	P=0.226N	P=0.217N	P=0.530
POLY 6	P=0.150	P=0.235N	P=0.207N	P=0.527
LOGISTIC REGRESSION	P=0.153	P=0.232N	P=0.210N	P=0.522
COCH-ARM / FISHERS	P=0.148	P=0.247N	P=0.247N	P=0.500
ORDER RESTRICTED	P=0.112	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Reqsted: 11/29/2005
 Time Report Reqsted: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Adrenal Medulla
 Pheochromocytoma Benign**

TUMOR RATES

OVERALL (a)	1/49 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/39.67	0/41.68	0/45.12	0/42.5
POLY-3 PERCENT (g)	2.5%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/24 (0%)	0/36 (0%)	0/26 (0%)
FIRST INCIDENCE	688	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.498N	P=0.512N	P=0.467N	P=0.500N
POLY 3	P=0.509N	P=0.490N	P=0.474N	P=0.486N
POLY 1.5	P=0.509N	P=0.487N	P=0.478N	P=0.485N
POLY 6	P=0.506N	P=0.497N	P=0.470N	P=0.491N
LOGISTIC REGRESSION	P=0.496N	P=0.490N	P=0.487N	P=0.488N
COCH-ARM / FISHERS	P=0.498N	P=0.495N	P=0.495N	P=0.495N
ORDER RESTRICTED	P=0.108N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM
Adrenal Medulla Pheochromocytoma Malignant				
TUMOR RATES				
OVERALL (a)	0/49 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/39.5	1/42.09	1/45.12	1/42.53
POLY-3 PERCENT (g)	0%	2.4%	2.2%	2.4%
TERMINAL (d)	0/27 (0%)	0/24 (0%)	1/36 (3%)	0/26 (0%)
FIRST INCIDENCE	---	610	730 (T)	723
STATISTICAL TESTS				
LIFE TABLE	P=0.505	P=0.515	P=0.557	P=0.500
POLY 3	P=0.520	P=0.513	P=0.526	P=0.515
POLY 1.5	P=0.521	P=0.514	P=0.522	P=0.516
POLY 6	P=0.515	P=0.508	P=0.531	P=0.511
LOGISTIC REGRESSION	P=0.508	P=0.477	P=0.557	P=0.503
COCH-ARM / FISHERS	P=0.503	P=0.505	P=0.505	P=0.505
ORDER RESTRICTED	P=0.342	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

Adrenal Medulla
Pheochromocytoma: Benign, Complex, Malignant, NOS

TUMOR RATES

OVERALL (a)	1/49 (2%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/39.67	1/42.09	1/45.12	1/42.53
POLY-3 PERCENT (g)	2.5%	2.4%	2.2%	2.4%
TERMINAL (d)	0/27 (0%)	0/24 (0%)	1/36 (3%)	0/26 (0%)
FIRST INCIDENCE	688	610	730 (T)	723

STATISTICAL TESTS

LIFE TABLE	P=0.672N	P=0.759N	P=0.709N	P=0.760
POLY 3	P=0.666N	P=0.748N	P=0.731N	P=0.745N
POLY 1.5	P=0.664N	P=0.745N	P=0.736N	P=0.744N
POLY 6	P=0.670N	P=0.754N	P=0.726N	P=0.750N
LOGISTIC REGRESSION	P=0.667N	P=0.763	P=0.734N	P=0.748N
COCH-ARM / FISHERS	P=0.671N	P=0.747N	P=0.747N	P=0.747N
ORDER RESTRICTED	P=0.716N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Reqsted: 11/29/2005
 Time Report Reqsted: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Brain
 Oligodendroglioma, Glioma, or Astrocytoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/40.55	0/41.68	0/45.12	0/42.5
POLY-3 PERCENT (g)	4.9%	0%	0%	0%
TERMINAL (d)	1/27 (4%)	0/24 (0%)	0/36 (0%)	0/26 (0%)
FIRST INCIDENCE	568	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.256N	P=0.250N	P=0.199N	P=0.236N
POLY 3	P=0.269N	P=0.231N	P=0.214N	P=0.226N
POLY 1.5	P=0.270N	P=0.228N	P=0.219N	P=0.225N
POLY 6	P=0.265N	P=0.237N	P=0.209N	P=0.230N
LOGISTIC REGRESSION	P=0.273N	P=0.241N	P=0.248N	P=0.242N
COCH-ARM / FISHERS	P=0.262N	P=0.247N	P=0.247N	P=0.247N
ORDER RESTRICTED	P=0.026N*	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Clitoral/Preputial Gland
 Carcinoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	1/40.02	1/41.68	3/45.22	3/43.29
POLY-3 PERCENT (g)	2.5%	2.4%	6.6%	6.9%
TERMINAL (d)	1/27 (4%)	1/24 (4%)	2/36 (6%)	1/26 (4%)
FIRST INCIDENCE	730 (T)	730 (T)	705	458

STATISTICAL TESTS

LIFE TABLE	P=0.207	P=0.736	P=0.405	P=0.308
POLY 3	P=0.242	P=0.752N	P=0.350	P=0.334
POLY 1.5	P=0.238	P=0.750N	P=0.340	P=0.332
POLY 6	P=0.243	P=0.758N	P=0.363	P=0.331
LOGISTIC REGRESSION	P=0.224	P=0.736	P=0.371	P=0.297
COCH-ARM / FISHERS	P=0.216	P=0.753N	P=0.309	P=0.309
ORDER RESTRICTED	P=0.272	(e)	(e)	(e)

TDMS No. 88006-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

ALPHA-METHYLSTYRENE

CAS Number: 98-83-9

Pathologist: RENNE, R.

Date Report Reqsted: 11/29/2005

Time Report Reqsted: 13:37:24

First Dose M/F: 08/06/01 / 08/06/01

Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

Islets, Pancreatic
Adenoma

TUMOR RATES

OVERALL (a)	3/50 (6%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	3/40.02	0/41.68	1/45.12	0/42.5
POLY-3 PERCENT (g)	7.5%	0%	2.2%	0%
TERMINAL (d)	3/27 (11%)	0/24 (0%)	1/36 (3%)	0/26 (0%)
FIRST INCIDENCE	730 (T)	---	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.159N	P=0.141N	P=0.208N	P=0.126N
POLY 3	P=0.166N	P=0.111N	P=0.263N	P=0.108N
POLY 1.5	P=0.167N	P=0.110N	P=0.273N	P=0.108N
POLY 6	P=0.164N	P=0.114N	P=0.253N	P=0.109N
LOGISTIC REGRESSION	P=0.159N	(e)	P=0.208N	(e)
COCH-ARM / FISHERS	P=0.166N	P=0.121N	P=0.309N	P=0.121N
ORDER RESTRICTED	P=0.017N*	(e)	(e)	(e)

TDMS No. 88006-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

ALPHA-METHYLSTYRENE

CAS Number: 98-83-9

Pathologist: RENNE, R.

Date Report Reqsted: 11/29/2005

Time Report Reqsted: 13:37:24

First Dose M/F: 08/06/01 / 08/06/01

Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

Islets, Pancreatic
Carcinoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/40.02	0/41.68	1/45.12	0/42.5
POLY-3 PERCENT (g)	0%	0%	2.2%	0%
TERMINAL (d)	0/27 (0%)	0/24 (0%)	1/36 (3%)	0/26 (0%)
FIRST INCIDENCE	---	---	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.791N	(e)	P=0.557	(e)
POLY 3	P=0.772N	(e)	P=0.524	(e)
POLY 1.5	P=0.773N	(e)	P=0.519	(e)
POLY 6	P=0.772N	(e)	P=0.530	(e)
LOGISTIC REGRESSION	(e)	(e)	P=0.557	(e)
COCH-ARM / FISHERS	P=0.779N	(e)	P=0.500	(e)
ORDER RESTRICTED	P=0.401	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Islets, Pancreatic
 Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	3/50 (6%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	3/40.02	0/41.68	2/45.12	0/42.5
POLY-3 PERCENT (g)	7.5%	0%	4.4%	0%
TERMINAL (d)	3/27 (11%)	0/24 (0%)	2/36 (6%)	0/26 (0%)
FIRST INCIDENCE	730 (T)	---	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.170N	P=0.141N	P=0.369N	P=0.126N
POLY 3	P=0.173N	P=0.111N	P=0.445N	P=0.108N
POLY 1.5	P=0.174N	P=0.110N	P=0.458N	P=0.108N
POLY 6	P=0.171N	P=0.114N	P=0.431N	P=0.109N
LOGISTIC REGRESSION	P=0.170N	(e)	P=0.369N	(e)
COCH-ARM / FISHERS	P=0.177N	P=0.121N	P=0.500N	P=0.121N
ORDER RESTRICTED	P=0.031N*	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Kidney: Renal Tubule
 Carcinoma**

TUMOR RATES

OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.5	0/41.68	0/45.12	0/42.5
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/24 (0%)	0/36 (0%)	0/26 (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. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Kidney: Renal Tubule
 Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/39.5	0/41.68	0/45.12	0/42.5
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/24 (0%)	0/36 (0%)	0/26 (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. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	2/50 (4%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	3/40.41	2/42.23	4/45.12	2/42.5
POLY-3 PERCENT (g)	7.4%	4.7%	8.9%	4.7%
TERMINAL (d)	2/27 (7%)	1/24 (4%)	4/36 (11%)	2/26 (8%)
FIRST INCIDENCE	618	557	730 (T)	730 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.472N	P=0.521N	P=0.642	P=0.507N
POLY 3	P=0.455N	P=0.480N	P=0.560	P=0.477N
POLY 1.5	P=0.454N	P=0.476N	P=0.548	P=0.475N
POLY 6	P=0.461N	P=0.491N	P=0.573	P=0.486N
LOGISTIC REGRESSION	P=0.450N	P=0.492N	P=0.576	P=0.476N
COCH-ARM / FISHERS	P=0.468N	P=0.500N	P=0.500	P=0.500N
ORDER RESTRICTED	P=0.490N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	3/50 (6%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	3/40.41	3/42.27	4/45.12	2/42.5
POLY-3 PERCENT (g)	7.4%	7.1%	8.9%	4.7%
TERMINAL (d)	2/27 (7%)	1/24 (4%)	4/36 (11%)	2/26 (8%)
FIRST INCIDENCE	618	557	730 (T)	730 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.396N	P=0.633	P=0.642	P=0.507N
POLY 3	P=0.380N	P=0.642N	P=0.560	P=0.477N
POLY 1.5	P=0.378N	P=0.638N	P=0.548	P=0.475N
POLY 6	P=0.387N	P=0.654N	P=0.573	P=0.486N
LOGISTIC REGRESSION	P=0.376N	P=0.650N	P=0.576	P=0.476N
COCH-ARM / FISHERS	P=0.395N	P=0.661N	P=0.500	P=0.500N
ORDER RESTRICTED	P=0.463N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	22/50 (44%)	30/50 (60%)	23/50 (46%)	23/50 (46%)
POLY-3 RATE (b)	22/42.85	30/44.73	23/46.07	23/43.58
POLY-3 PERCENT (g)	51.3%	67.1%	49.9%	52.8%
TERMINAL (d)	11/27 (41%)	17/24 (71%)	18/36 (50%)	16/26 (62%)
FIRST INCIDENCE	460	590	647	663
STATISTICAL TESTS				
LIFE TABLE	P=0.371N	P=0.075	P=0.268N	P=0.488
POLY 3	P=0.345N	P=0.092	P=0.532N	P=0.533
POLY 1.5	P=0.311N	P=0.107	P=0.542N	P=0.569
POLY 6	P=0.415N	P=0.072	P=0.530N	P=0.461
LOGISTIC REGRESSION	P=0.271N	P=0.112	P=0.464N	P=0.554N
COCH-ARM / FISHERS	P=0.352N	P=0.080	P=0.500	P=0.500
ORDER RESTRICTED	P=0.352N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM
Mammary Gland Fibroma, Fibroadenoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	22/50 (44%)	30/50 (60%)	23/50 (46%)	23/50 (46%)
POLY-3 RATE (b)	22/42.85	30/44.73	23/46.07	23/43.58
POLY-3 PERCENT (g)	51.3%	67.1%	49.9%	52.8%
TERMINAL (d)	11/27 (41%)	17/24 (71%)	18/36 (50%)	16/26 (62%)
FIRST INCIDENCE	460	590	647	663
STATISTICAL TESTS				
LIFE TABLE	P=0.371N	P=0.075	P=0.268N	P=0.488
POLY 3	P=0.345N	P=0.092	P=0.532N	P=0.533
POLY 1.5	P=0.311N	P=0.107	P=0.542N	P=0.569
POLY 6	P=0.415N	P=0.072	P=0.530N	P=0.461
LOGISTIC REGRESSION	P=0.271N	P=0.112	P=0.464N	P=0.554N
COCH-ARM / FISHERS	P=0.352N	P=0.080	P=0.500	P=0.500
ORDER RESTRICTED	P=0.352N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	24/50 (48%)	32/50 (64%)	24/50 (48%)	24/50 (48%)
POLY-3 RATE (b)	24/43.24	32/45.29	24/46.07	24/43.58
POLY-3 PERCENT (g)	55.5%	70.7%	52.1%	55.1%
TERMINAL (d)	12/27 (44%)	18/24 (75%)	19/36 (53%)	17/26 (65%)
FIRST INCIDENCE	460	557	647	663

STATISTICAL TESTS

LIFE TABLE	P=0.302N	P=0.078	P=0.199N	P=0.558
POLY 3	P=0.280N	P=0.095	P=0.456N	P=0.572N
POLY 1.5	P=0.242N	P=0.110	P=0.460N	P=0.522N
POLY 6	P=0.362N	P=0.074	P=0.465N	P=0.516
LOGISTIC REGRESSION	P=0.196N	P=0.117	P=0.375N	P=0.460N
COCH-ARM / FISHERS	P=0.275N	P=0.079	P=0.579N	P=0.579N
ORDER RESTRICTED	P=0.275N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

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

TUMOR RATES

OVERALL (a)	35/50 (70%)	29/49 (59%)	37/50 (74%)	29/50 (58%)
POLY-3 RATE (b)	35/43.9	29/44.93	37/48.17	29/45.19
POLY-3 PERCENT (g)	79.7%	64.6%	76.8%	64.2%
TERMINAL (d)	21/27 (78%)	16/24 (67%)	27/36 (75%)	19/26 (73%)
FIRST INCIDENCE	521	435	477	569

STATISTICAL TESTS

LIFE TABLE	P=0.251N	P=0.321N	P=0.163N	P=0.207N
POLY 3	P=0.147N	P=0.076N	P=0.464N	P=0.069N
POLY 1.5	P=0.135N	P=0.077N	P=0.514N	P=0.066N
POLY 6	P=0.180N	P=0.092N	P=0.425N	P=0.091N
LOGISTIC REGRESSION	P=0.112N	P=0.095N	P=0.464N	P=0.055N
COCH-ARM / FISHERS	P=0.189N	P=0.180N	P=0.412	P=0.149N
ORDER RESTRICTED	P=0.067N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

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

TUMOR RATES

OVERALL (a)	35/50 (70%)	30/49 (61%)	37/50 (74%)	29/50 (58%)
POLY-3 RATE (b)	35/43.9	30/44.93	37/48.17	29/45.19
POLY-3 PERCENT (g)	79.7%	66.8%	76.8%	64.2%
TERMINAL (d)	21/27 (78%)	17/24 (71%)	27/36 (75%)	19/26 (73%)
FIRST INCIDENCE	521	435	477	569

STATISTICAL TESTS

LIFE TABLE	P=0.226N	P=0.384N	P=0.163N	P=0.207N
POLY 3	P=0.121N	P=0.114N	P=0.464N	P=0.069N
POLY 1.5	P=0.112N	P=0.114N	P=0.514N	P=0.066N
POLY 6	P=0.149N	P=0.140N	P=0.425N	P=0.091N
LOGISTIC REGRESSION	P=0.092N	P=0.134N	P=0.464N	P=0.055N
COCH-ARM / FISHERS	P=0.164N	P=0.240N	P=0.412	P=0.149N
ORDER RESTRICTED	P=0.066N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Reqsted: 11/29/2005
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 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM
Skin				
Basal Cell Adenoma				
TUMOR RATES				
	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.02	1/41.68	0/45.12	0/42.5
POLY-3 PERCENT (g)	0%	2.4%	0%	0%
TERMINAL (d)	0/27 (0%)	1/24 (4%)	0/36 (0%)	0/26 (0%)
FIRST INCIDENCE	---	730 (T)	---	---
STATISTICAL TESTS				
LIFE TABLE	P=0.608N	P=0.477	(e)	(e)
POLY 3	P=0.599N	P=0.508	(e)	(e)
POLY 1.5	P=0.595N	P=0.510	(e)	(e)
POLY 6	P=0.605N	P=0.503	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.477	(e)	(e)
COCH-ARM / FISHERS	P=0.601N	P=0.500	(e)	(e)
ORDER RESTRICTED	P=0.377N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/40.02	1/41.68	1/45.43	0/42.5
POLY-3 PERCENT (g)	0%	2.4%	2.2%	0%
TERMINAL (d)	0/27 (0%)	1/24 (4%)	0/36 (0%)	0/26 (0%)
FIRST INCIDENCE	---	730 (T)	647	---

STATISTICAL TESTS

LIFE TABLE	P=0.529N	P=0.477	P=0.531	(e)
POLY 3	P=0.523N	P=0.508	P=0.525	(e)
POLY 1.5	P=0.522N	P=0.510	P=0.519	(e)
POLY 6	P=0.528N	P=0.503	P=0.532	(e)
LOGISTIC REGRESSION	P=0.532N	P=0.477	P=0.482	(e)
COCH-ARM / FISHERS	P=0.536N	P=0.500	P=0.500	(e)
ORDER RESTRICTED	P=0.408N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

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)	0/50 (0%)	3/50 (6%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/40.02	3/41.98	2/45.43	0/42.5
POLY-3 PERCENT (g)	0%	7.2%	4.4%	0%
TERMINAL (d)	0/27 (0%)	2/24 (8%)	1/36 (3%)	0/26 (0%)
FIRST INCIDENCE	---	649	647	---

STATISTICAL TESTS

LIFE TABLE	P=0.271N	P=0.113	P=0.289	(e)
POLY 3	P=0.260N	P=0.127	P=0.266	(e)
POLY 1.5	P=0.259N	P=0.128	P=0.259	(e)
POLY 6	P=0.265N	P=0.123	P=0.275	(e)
LOGISTIC REGRESSION	P=0.271N	P=0.126	P=0.245	(e)
COCH-ARM / FISHERS	P=0.281N	P=0.121	P=0.247	(e)
ORDER RESTRICTED	P=0.236N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM
Skin Fibroma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/40.05	0/41.68	0/45.12	1/42.5
POLY-3 PERCENT (g)	2.5%	0%	0%	2.4%
TERMINAL (d)	0/27 (0%)	0/24 (0%)	0/36 (0%)	1/26 (4%)
FIRST INCIDENCE	722	---	---	730 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.537	P=0.523N	P=0.444N	P=0.756
POLY 3	P=0.538	P=0.492N	P=0.476N	P=0.748N
POLY 1.5	P=0.537	P=0.490N	P=0.481N	P=0.747N
POLY 6	P=0.540	P=0.497N	P=0.470N	P=0.751N
LOGISTIC REGRESSION	P=0.538	P=0.507N	P=0.465N	P=0.763
COCH-ARM / FISHERS	P=0.536	P=0.500N	P=0.500N	P=0.753N
ORDER RESTRICTED	P=0.378N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/40.05	1/42.47	0/45.12	2/43.16
POLY-3 PERCENT (g)	2.5%	2.4%	0%	4.6%
TERMINAL (d)	0/27 (0%)	0/24 (0%)	0/36 (0%)	1/26 (4%)
FIRST INCIDENCE	722	435	---	509

STATISTICAL TESTS

LIFE TABLE	P=0.332	P=0.755	P=0.444N	P=0.508
POLY 3	P=0.334	P=0.748N	P=0.476N	P=0.526
POLY 1.5	P=0.334	P=0.747N	P=0.481N	P=0.524
POLY 6	P=0.333	P=0.752N	P=0.470N	P=0.524
LOGISTIC REGRESSION	P=0.253	P=0.724	P=0.465N	P=0.489
COCH-ARM / FISHERS	P=0.325	P=0.753N	P=0.500N	P=0.500
ORDER RESTRICTED	P=0.289	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM
Skin				
Keratoacanthoma				
TUMOR RATES				
	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/40.02	2/41.98	1/45.12	0/42.5
POLY-3 PERCENT (g)	0%	4.8%	2.2%	0%
TERMINAL (d)	0/27 (0%)	1/24 (4%)	1/36 (3%)	0/26 (0%)
FIRST INCIDENCE	---	649	730 (T)	---
STATISTICAL TESTS				
LIFE TABLE	P=0.376N	P=0.235	P=0.557	(e)
POLY 3	P=0.367N	P=0.248	P=0.524	(e)
POLY 1.5	P=0.365N	P=0.249	P=0.519	(e)
POLY 6	P=0.373N	P=0.243	P=0.530	(e)
LOGISTIC REGRESSION	P=0.374N	P=0.246	P=0.557	(e)
COCH-ARM / FISHERS	P=0.383N	P=0.247	P=0.500	(e)
ORDER RESTRICTED	P=0.323N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

Skin
 Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/40.02	0/41.68	1/45.43	0/42.5
POLY-3 PERCENT (g)	0%	0%	2.2%	0%
TERMINAL (d)	0/27 (0%)	0/24 (0%)	0/36 (0%)	0/26 (0%)
FIRST INCIDENCE	---	---	647	---

STATISTICAL TESTS

LIFE TABLE	P=0.767N	(e)	P=0.531	(e)
POLY 3	P=0.772N	(e)	P=0.525	(e)
POLY 1.5	P=0.773N	(e)	P=0.519	(e)
POLY 6	P=0.772N	(e)	P=0.532	(e)
LOGISTIC REGRESSION	P=0.793N	(e)	P=0.482	(e)
COCH-ARM / FISHERS	P=0.779N	(e)	P=0.500	(e)
ORDER RESTRICTED	P=0.402	(e)	(e)	(e)

TDMS No. 88006-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

ALPHA-METHYLSTYRENE

CAS Number: 98-83-9

Pathologist: RENNE, R.

Date Report Reqsted: 11/29/2005

Time Report Reqsted: 13:37:24

First Dose M/F: 08/06/01 / 08/06/01

Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

Skin
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/40.02	2/41.98	1/45.12	0/42.5
POLY-3 PERCENT (g)	0%	4.8%	2.2%	0%
TERMINAL (d)	0/27 (0%)	1/24 (4%)	1/36 (3%)	0/26 (0%)
FIRST INCIDENCE	---	649	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.376N	P=0.235	P=0.557	(e)
POLY 3	P=0.367N	P=0.248	P=0.524	(e)
POLY 1.5	P=0.365N	P=0.249	P=0.519	(e)
POLY 6	P=0.373N	P=0.243	P=0.530	(e)
LOGISTIC REGRESSION	P=0.374N	P=0.246	P=0.557	(e)
COCH-ARM / FISHERS	P=0.383N	P=0.247	P=0.500	(e)
ORDER RESTRICTED	P=0.323N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Skin
 Squamous Cell Papilloma, Papilloma, or Keratoacanthoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/40.02	2/41.98	1/45.12	0/42.5
POLY-3 PERCENT (g)	0%	4.8%	2.2%	0%
TERMINAL (d)	0/27 (0%)	1/24 (4%)	1/36 (3%)	0/26 (0%)
FIRST INCIDENCE	---	649	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.376N	P=0.235	P=0.557	(e)
POLY 3	P=0.367N	P=0.248	P=0.524	(e)
POLY 1.5	P=0.365N	P=0.249	P=0.519	(e)
POLY 6	P=0.373N	P=0.243	P=0.530	(e)
LOGISTIC REGRESSION	P=0.374N	P=0.246	P=0.557	(e)
COCH-ARM / FISHERS	P=0.383N	P=0.247	P=0.500	(e)
ORDER RESTRICTED	P=0.323N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Thyroid Gland: C-Cell
 Adenoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	6/50 (12%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	2/40.5	6/42.37	4/45.49	4/43.18
POLY-3 PERCENT (g)	4.9%	14.2%	8.8%	9.3%
TERMINAL (d)	1/27 (4%)	3/24 (13%)	3/36 (8%)	1/26 (4%)
FIRST INCIDENCE	585	649	626	610

STATISTICAL TESTS

LIFE TABLE	P=0.549	P=0.127	P=0.452	P=0.354
POLY 3	P=0.575	P=0.146	P=0.392	P=0.367
POLY 1.5	P=0.574	P=0.149	P=0.380	P=0.366
POLY 6	P=0.570	P=0.139	P=0.406	P=0.363
LOGISTIC REGRESSION	P=0.555	P=0.146	P=0.358	P=0.344
COCH-ARM / FISHERS	P=0.540	P=0.134	P=0.339	P=0.339
ORDER RESTRICTED	P=0.296	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Thyroid Gland: C-Cell
 Carcinoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/40.02	2/41.98	0/45.12	0/42.5
POLY-3 PERCENT (g)	2.5%	4.8%	0%	0%
TERMINAL (d)	1/27 (4%)	1/24 (4%)	0/36 (0%)	0/26 (0%)
FIRST INCIDENCE	730 (T)	649	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.220N	P=0.482	P=0.443N	P=0.508N
POLY 3	P=0.225N	P=0.517	P=0.476N	P=0.488N
POLY 1.5	P=0.223N	P=0.519	P=0.481N	P=0.488N
POLY 6	P=0.228N	P=0.510	P=0.470N	P=0.490N
LOGISTIC REGRESSION	P=0.220N	P=0.511	(e)	(e)
COCH-ARM / FISHERS	P=0.228N	P=0.500	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.166N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

Thyroid Gland: C-Cell
 Carcinoma or Adenoma

TUMOR RATES

OVERALL (a)	3/50 (6%)	7/50 (14%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	3/40.5	7/42.37	4/45.49	4/43.18
POLY-3 PERCENT (g)	7.4%	16.5%	8.8%	9.3%
TERMINAL (d)	2/27 (7%)	4/24 (17%)	3/36 (8%)	1/26 (4%)
FIRST INCIDENCE	585	649	626	610

STATISTICAL TESTS

LIFE TABLE	P=0.480N	P=0.141	P=0.631	P=0.511
POLY 3	P=0.457N	P=0.174	P=0.563	P=0.535
POLY 1.5	P=0.456N	P=0.178	P=0.550	P=0.534
POLY 6	P=0.462N	P=0.165	P=0.579	P=0.531
LOGISTIC REGRESSION	P=0.467N	P=0.173	P=0.538	P=0.519
COCH-ARM / FISHERS	P=0.487N	P=0.159	P=0.500	P=0.500
ORDER RESTRICTED	P=0.437	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Reqsted: 11/29/2005
 Time Report Reqsted: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Thyroid Gland: Follicular Cell
 Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.02	1/41.68	0/45.12	0/42.5
POLY-3 PERCENT (g)	0%	2.4%	0%	0%
TERMINAL (d)	0/27 (0%)	1/24 (4%)	0/36 (0%)	0/26 (0%)
FIRST INCIDENCE	---	730 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.608N	P=0.477	(e)	(e)
POLY 3	P=0.599N	P=0.508	(e)	(e)
POLY 1.5	P=0.595N	P=0.510	(e)	(e)
POLY 6	P=0.605N	P=0.503	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.477	(e)	(e)
COCH-ARM / FISHERS	P=0.601N	P=0.500	(e)	(e)
ORDER RESTRICTED	P=0.377N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Reqsted: 11/29/2005
 Time Report Reqsted: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

Thyroid Gland: Follicular Cell Carcinoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.02	0/41.68	0/45.12	0/42.5
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/24 (0%)	0/36 (0%)	0/26 (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. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Reqsted: 11/29/2005
 Time Report Reqsted: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

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

TUMOR RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.02	1/41.68	0/45.12	0/42.5
POLY-3 PERCENT (g)	0%	2.4%	0%	0%
TERMINAL (d)	0/27 (0%)	1/24 (4%)	0/36 (0%)	0/26 (0%)
FIRST INCIDENCE	---	730 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.608N	P=0.477	(e)	(e)
POLY 3	P=0.599N	P=0.508	(e)	(e)
POLY 1.5	P=0.595N	P=0.510	(e)	(e)
POLY 6	P=0.605N	P=0.503	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.477	(e)	(e)
COCH-ARM / FISHERS	P=0.601N	P=0.500	(e)	(e)
ORDER RESTRICTED	P=0.377N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM
Uterus				
Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	6/50 (12%)	14/50 (28%)	9/50 (18%)	10/50 (20%)
POLY-3 RATE (b)	6/40.02	14/43.91	9/45.33	10/43.92
POLY-3 PERCENT (g)	15%	31.9%	19.9%	22.8%
TERMINAL (d)	6/27 (22%)	8/24 (33%)	8/36 (22%)	5/26 (19%)
FIRST INCIDENCE	730 (T)	435	677	610
STATISTICAL TESTS				
LIFE TABLE	P=0.477	P=0.027*	P=0.511	P=0.208
POLY 3	P=0.555	P=0.056	P=0.381	P=0.265
POLY 1.5	P=0.544	P=0.055	P=0.359	P=0.256
POLY 6	P=0.567	P=0.055	P=0.409	P=0.274
LOGISTIC REGRESSION	P=0.518	P=0.048*	P=0.440	P=0.240
COCH-ARM / FISHERS	P=0.482	P=0.039*	P=0.288	P=0.207
ORDER RESTRICTED	P=0.226	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM
Uterus				
Sarcoma Stromal or Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	6/50 (12%)	14/50 (28%)	9/50 (18%)	10/50 (20%)
POLY-3 RATE (b)	6/40.02	14/43.91	9/45.33	10/43.92
POLY-3 PERCENT (g)	15%	31.9%	19.9%	22.8%
TERMINAL (d)	6/27 (22%)	8/24 (33%)	8/36 (22%)	5/26 (19%)
FIRST INCIDENCE	730 (T)	435	677	610
STATISTICAL TESTS				
LIFE TABLE	P=0.477	P=0.027*	P=0.511	P=0.208
POLY 3	P=0.555	P=0.056	P=0.381	P=0.265
POLY 1.5	P=0.544	P=0.055	P=0.359	P=0.256
POLY 6	P=0.567	P=0.055	P=0.409	P=0.274
LOGISTIC REGRESSION	P=0.518	P=0.048*	P=0.440	P=0.240
COCH-ARM / FISHERS	P=0.482	P=0.039*	P=0.288	P=0.207
ORDER RESTRICTED	P=0.226	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

**Zymbal's Gland
 Carcinoma or Adenoma**

TUMOR RATES

	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.02	0/41.68	0/45.12	0/42.5
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/24 (0%)	0/36 (0%)	0/26 (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. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Requested: 11/29/2005
 Time Report Requested: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	18/50 (36%)	21/50 (42%)	21/50 (42%)	22/50 (44%)
POLY-3 RATE (b)	18/41.41	21/44.08	21/47.96	22/46.48
POLY-3 PERCENT (g)	43.5%	47.7%	43.8%	47.3%
TERMINAL (d)	12/27 (44%)	9/24 (38%)	12/36 (33%)	8/26 (31%)
FIRST INCIDENCE	607	495	495	543

STATISTICAL TESTS

LIFE TABLE	P=0.343	P=0.264	P=0.452N	P=0.312
POLY 3	P=0.456	P=0.431	P=0.573	P=0.440
POLY 1.5	P=0.416	P=0.432	P=0.512	P=0.401
POLY 6	P=0.504	P=0.414	P=0.533N	P=0.484
LOGISTIC REGRESSION	P=0.355	P=0.396	P=0.468	P=0.343
COCH-ARM / FISHERS	P=0.310	P=0.341	P=0.341	P=0.270
ORDER RESTRICTED	P=0.562	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Reqsted: 11/29/2005
 Time Report Reqsted: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

All Organs
 Mesothelioma: Benign, Malignant, NOS

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.02	0/41.68	0/45.12	0/42.5
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/24 (0%)	0/36 (0%)	0/26 (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. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

Date Report Reqsted: 11/29/2005
 Time Report Reqsted: 13:37:24
 First Dose M/F: 08/06/01 / 08/06/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

All Organs
 Mesothelioma: Malignant

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.02	0/41.68	0/45.12	0/42.5
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/27 (0%)	0/24 (0%)	0/36 (0%)	0/26 (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)

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM
All Organs				
Benign Tumors				
TUMOR RATES				
	#	#	#	#
OVERALL (a)	43/50 (86%)	44/50 (88%)	44/50 (88%)	41/50 (82%)
POLY-3 RATE (b)	43/45.57	44/48.28	44/48.33	41/46.71
POLY-3 PERCENT (g)	94.4%	91.1%	91%	87.8%
TERMINAL (d)	25/27 (93%)	22/24 (92%)	33/36 (92%)	24/26 (92%)
FIRST INCIDENCE	460	435	477	569
STATISTICAL TESTS				
LIFE TABLE	P=0.353N	P=0.343	P=0.068N	P=0.445N
POLY 3	P=0.201N	P=0.413N	P=0.406N	P=0.204N
POLY 1.5	P=0.159N	P=0.414N	P=0.411N	P=0.171N
POLY 6	P=0.300N	P=0.461N	P=0.445N	P=0.305N
LOGISTIC REGRESSION	P=0.089N	P=0.423N	P=0.255N	P=0.094N
COCH-ARM / FISHERS	P=0.257N	P=0.500	P=0.500	P=0.393N
ORDER RESTRICTED	P=0.178N	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM
All Organs				
Malignant Tumors				
TUMOR RATES				
	#	#	#	#
OVERALL (a)	25/50 (50%)	29/50 (58%)	26/50 (52%)	30/50 (60%)
POLY-3 RATE (b)	25/43.12	29/46.32	26/48.26	30/48.72
POLY-3 PERCENT (g)	58%	62.6%	53.9%	61.6%
TERMINAL (d)	16/27 (59%)	12/24 (50%)	16/36 (44%)	10/26 (39%)
FIRST INCIDENCE	439	435	495	458
STATISTICAL TESTS				
LIFE TABLE	P=0.314	P=0.225	P=0.248N	P=0.287
POLY 3	P=0.448	P=0.406	P=0.427N	P=0.445
POLY 1.5	P=0.392	P=0.399	P=0.477N	P=0.387
POLY 6	P=0.513	P=0.402	P=0.371N	P=0.507
LOGISTIC REGRESSION	P=0.271	P=0.350	P=0.528N	P=0.257
COCH-ARM / FISHERS	P=0.250	P=0.274	P=0.500	P=0.211
ORDER RESTRICTED	P=0.568	(e)	(e)	(e)

TDMS No. 88006-03
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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

DOSE	Females			
	CONTROL	100 PPM	300 PPM	1000 PPM

**All Organs
 Malignant and Benign Tumors**

TUMOR RATES	#	#	#	#
OVERALL (a)	46/50 (92%)	49/50 (98%)	47/50 (94%)	49/50 (98%)
POLY-3 RATE (b)	46/46.35	49/50	47/50	49/50
POLY-3 PERCENT (g)	99.2%	98%	94%	98%
TERMINAL (d)	27/27 (100%)	23/24 (96%)	33/36 (92%)	25/26 (96%)
FIRST INCIDENCE	439	435	477	458

STATISTICAL TESTS

LIFE TABLE	P=0.426	P=0.242	P=0.064N	P=0.389
POLY 3	P=0.628N	P=0.648N	P=0.190N	P=0.648N
POLY 1.5	P=0.635	P=0.743N	P=0.258N	P=0.743N
POLY 6	P=0.596N	P=0.563N	P=0.151N	P=0.563N
LOGISTIC REGRESSION	P=0.510	P=0.709	P=0.306N	P=0.747
COCH-ARM / FISHERS	P=0.242	P=0.181	P=0.500	P=0.181
ORDER RESTRICTED	P=0.257N	(e)	(e)	(e)

TDMS No. 88006-03

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

ALPHA-METHYLSTYRENE

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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.
 - (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 ***