

TDMS No. 96011-05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
CUMENE
CAS Number: 98-82-8
Pathologist: PIERCE, J. - RENNE, R.
F 1 R2

Date Report Requested: 01/12/2006
Time Report Requested: 9:49:51
First Dose M/F: 06/04/01 / 06/04/01
Lab: BNW

C Number:	C96011		
Lock Date:	01/28/2004		
Cage Range:	1 - 9999		
Date Range:	1-JAN-1940 to 17-SEP-2040		
Reasons For Removal:	ALL		
Removal Date Range:	JAN /1 /1940 - SEP /17 /2040		
Treatment Groups:	Include 1 CONTROL	Include 2 CONTROL	Include 3 250 PPM
	Include 4 250 PPM	Include 5 500 PPM	Include 6 500 PPM
	Include 7 1000 PPM	Include 8 1000 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
Brain
Clitoral/Preputial Gland
Islets, Pancreatic
Kidney
Liver
Lung
Nose
Ovary
Pancreas
Pituitary Gland
Prostate
Spleen
Testes
Thymus
Thyroid Gland
Urinary Bladder

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF CUMENE

MALE RATS

Organ

Kidney: Renal Tubule

Liver

Nose

Pituitary Gland: Pars Distalis or Unspecified Site

Testes

Thyroid Gland: C-Cell

Urinary Bladder

Morphology

Carcinoma or Adenoma

Hepatocellular Carcinoma

Adenoma

Adenoma

Carcinoma or Adenoma

Adenoma

Carcinoma or Adenoma

Carcinoma or Papilloma

Papilloma

FEMALE RATS

Organ

Mammary Gland

Nose

Pituitary Gland: Pars Distalis or Unspecified Site

Uterus

Vagina

All Organs

Morphology

Carcinoma

Carcinoma or Adenoma

Adenoma

Adenoma

Carcinoma or Adenoma

Polyp Stromal

Sarcoma Stromal or Polyp Stromal

Polyp

Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated

Benign Tumors

Malignant Tumors

Malignant and Benign Tumors

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Adrenal Cortex
 Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	0/41.6	2/39.63	3/41.34	0/42.33
POLY-3 PERCENT (g)	0%	5.1%	7.3%	0%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	2/27 (7%)	0/24 (0%)
FIRST INCIDENCE	---	665	626	---

STATISTICAL TESTS

LIFE TABLE	P=0.524N	P=0.217	P=0.132	(e)
POLY 3	P=0.519N	P=0.226	P=0.117	(e)
POLY 1.5	P=0.521N	P=0.232	P=0.117	(e)
POLY 6	P=0.521N	P=0.217	P=0.116	(e)
LOGISTIC REGRESSION	P=0.520N	P=0.222	P=0.118	(e)
COCH-ARM / FISHERS	P=0.531N	P=0.247	P=0.121	(e)
ORDER RESTRICTED	P=0.211N	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Adrenal Medulla
 Pheochromocytoma Benign**

TUMOR RATES

OVERALL (a)	7/50 (14%)	7/50 (14%)	9/50 (18%)	11/50 (22%)
POLY-3 RATE (b)	7/41.96	7/40.28	9/41.79	11/42.55
POLY-3 PERCENT (g)	16.7%	17.4%	21.5%	25.9%
TERMINAL (d)	5/26 (19%)	4/23 (17%)	6/27 (22%)	8/24 (33%)
FIRST INCIDENCE	647	624	600	688

STATISTICAL TESTS

LIFE TABLE	P=0.140	P=0.514	P=0.401	P=0.179
POLY 3	P=0.149	P=0.583	P=0.387	P=0.221
POLY 1.5	P=0.147	P=0.599	P=0.388	P=0.223
POLY 6	P=0.146	P=0.558	P=0.385	P=0.211
LOGISTIC REGRESSION	P=0.162	P=0.541	P=0.370	P=0.200
COCH-ARM / FISHERS	P=0.140	P=0.613N	P=0.393	P=0.218
ORDER RESTRICTED	P=0.228	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Adrenal Medulla
 Pheochromocytoma Malignant**

TUMOR RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/41.6	1/39.38	1/41.17	2/42.37
POLY-3 PERCENT (g)	2.4%	2.5%	2.4%	4.7%
TERMINAL (d)	1/26 (4%)	1/23 (4%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	729 (T)	729 (T)	679	720

STATISTICAL TESTS

LIFE TABLE	P=0.346	P=0.735	P=0.754	P=0.481
POLY 3	P=0.364	P=0.749	P=0.759	P=0.506
POLY 1.5	P=0.360	P=0.755	P=0.759	P=0.505
POLY 6	P=0.367	P=0.739	P=0.758	P=0.505
LOGISTIC REGRESSION	P=0.365	P=0.735	P=0.758	P=0.488
COCH-ARM / FISHERS	P=0.351	P=0.753N	P=0.753N	P=0.500
ORDER RESTRICTED	P=0.424	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

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

TUMOR RATES

OVERALL (a)	7/50 (14%)	7/50 (14%)	10/50 (20%)	13/50 (26%)
POLY-3 RATE (b)	7/41.96	7/40.28	10/41.98	13/42.59
POLY-3 PERCENT (g)	16.7%	17.4%	23.8%	30.5%
TERMINAL (d)	5/26 (19%)	4/23 (17%)	6/27 (22%)	9/24 (38%)
FIRST INCIDENCE	647	624	600	688

STATISTICAL TESTS

LIFE TABLE	P=0.054	P=0.514	P=0.304	P=0.083
POLY 3	P=0.054	P=0.583	P=0.293	P=0.103
POLY 1.5	P=0.054	P=0.599	P=0.293	P=0.106
POLY 6	P=0.052	P=0.558	P=0.293	P=0.096
LOGISTIC REGRESSION	P=0.062	P=0.541	P=0.276	P=0.089
COCH-ARM / FISHERS	P=0.051	P=0.613N	P=0.298	P=0.105
ORDER RESTRICTED	P=0.090	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Brain
Oligodendroglioma, Glioma, or Astrocytoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.6	0/39.38	0/40.98	0/42.33
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	0/24 (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	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Clitoral/Preputial Gland
Carcinoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.6	3/39.94	1/40.98	0/42.33
POLY-3 PERCENT (g)	0%	7.5%	2.4%	0%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	1/27 (4%)	0/24 (0%)
FIRST INCIDENCE	---	639	729 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.363N	P=0.107	P=0.508	(e)
POLY 3	P=0.363N	P=0.111	P=0.497	(e)
POLY 1.5	P=0.362N	P=0.115	P=0.498	(e)
POLY 6	P=0.368N	P=0.105	P=0.495	(e)
LOGISTIC REGRESSION	P=0.360N	P=0.117	P=0.508	(e)
COCH-ARM / FISHERS	P=0.366N	P=0.121	P=0.500	(e)
ORDER RESTRICTED	P=0.208N	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Clitoral/Preputial Gland
 Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.6	3/39.94	1/40.98	0/42.33
POLY-3 PERCENT (g)	0%	7.5%	2.4%	0%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	1/27 (4%)	0/24 (0%)
FIRST INCIDENCE	---	639	729 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.363N	P=0.107	P=0.508	(e)
POLY 3	P=0.363N	P=0.111	P=0.497	(e)
POLY 1.5	P=0.362N	P=0.115	P=0.498	(e)
POLY 6	P=0.368N	P=0.105	P=0.495	(e)
LOGISTIC REGRESSION	P=0.360N	P=0.117	P=0.508	(e)
COCH-ARM / FISHERS	P=0.366N	P=0.121	P=0.500	(e)
ORDER RESTRICTED	P=0.208N	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM
Islets, Pancreatic Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	1/41.6	2/39.38	2/41.17	2/42.33
POLY-3 PERCENT (g)	2.4%	5.1%	4.9%	4.7%
TERMINAL (d)	1/26 (4%)	2/23 (9%)	1/27 (4%)	2/24 (8%)
FIRST INCIDENCE	729 (T)	729 (T)	679	729 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.408	P=0.457	P=0.498	P=0.472
POLY 3	P=0.437	P=0.481	P=0.496	P=0.506
POLY 1.5	P=0.433	P=0.491	P=0.497	P=0.505
POLY 6	P=0.438	P=0.465	P=0.495	P=0.504
LOGISTIC REGRESSION	P=0.436	P=0.457	P=0.490	P=0.472
COCH-ARM / FISHERS	P=0.423	P=0.500	P=0.500	P=0.500
ORDER RESTRICTED	P=0.452	(e)	(e)	(e)

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Species/Strain: RATS/F 344

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Islets, Pancreatic
Carcinoma

TUMOR RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	2/41.76	1/39.38	2/40.98	1/42.33
POLY-3 PERCENT (g)	4.8%	2.5%	4.9%	2.4%
TERMINAL (d)	1/26 (4%)	1/23 (4%)	2/27 (7%)	1/24 (4%)
FIRST INCIDENCE	689	729 (T)	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.459N	P=0.564N	P=0.690	P=0.533N
POLY 3	P=0.431N	P=0.520N	P=0.688	P=0.495N
POLY 1.5	P=0.436N	P=0.510N	P=0.690	P=0.496N
POLY 6	P=0.427N	P=0.537N	P=0.684	P=0.498N
LOGISTIC REGRESSION	P=0.434N	P=0.549N	P=0.683	P=0.499N
COCH-ARM / FISHERS	P=0.444N	P=0.500N	P=0.691N	P=0.500N
ORDER RESTRICTED	P=0.436N	(e)	(e)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Islets, Pancreatic
Carcinoma or Adenoma

TUMOR RATES

OVERALL (a)	3/50 (6%)	3/50 (6%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	3/41.76	3/39.38	4/41.17	3/42.33
POLY-3 PERCENT (g)	7.2%	7.6%	9.7%	7.1%
TERMINAL (d)	2/26 (8%)	3/23 (13%)	3/27 (11%)	3/24 (13%)
FIRST INCIDENCE	689	729 (T)	679	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.538	P=0.591	P=0.495	P=0.623
POLY 3	P=0.578	P=0.636	P=0.492	P=0.657N
POLY 1.5	P=0.571	P=0.650	P=0.495	P=0.657N
POLY 6	P=0.576N	P=0.613	P=0.488	P=0.662N
LOGISTIC REGRESSION	P=0.575	P=0.585	P=0.481	P=0.657
COCH-ARM / FISHERS	P=0.558	P=0.661N	P=0.500	P=0.661N
ORDER RESTRICTED	P=0.647	(e)	(e)	(e)

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Kidney: Renal Tubule
 Adenoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	4/50 (8%)	5/50 (10%)	4/50 (8%)
POLY-3 RATE (b)	1/41.6	4/39.92	5/41.44	4/42.87
POLY-3 PERCENT (g)	2.4%	10%	12.1%	9.3%
TERMINAL (d)	1/26 (4%)	1/23 (4%)	2/27 (7%)	2/24 (8%)
FIRST INCIDENCE	729 (T)	665	679	635

STATISTICAL TESTS

LIFE TABLE	P=0.211	P=0.146	P=0.099	P=0.176
POLY 3	P=0.219	P=0.165	P=0.099	P=0.187
POLY 1.5	P=0.212	P=0.172	P=0.100	P=0.185
POLY 6	P=0.224	P=0.155	P=0.098	P=0.188
LOGISTIC REGRESSION	P=0.216	P=0.154	P=0.096	P=0.183
COCH-ARM / FISHERS	P=0.200	P=0.181	P=0.102	P=0.181
ORDER RESTRICTED	P=0.129	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Kidney: Renal Tubule
 Carcinoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	1/41.6	1/39.38	3/41.3	3/42.72
POLY-3 PERCENT (g)	2.4%	2.5%	7.3%	7%
TERMINAL (d)	1/26 (4%)	1/23 (4%)	2/27 (7%)	2/24 (8%)
FIRST INCIDENCE	729 (T)	729 (T)	639	618

STATISTICAL TESTS

LIFE TABLE	P=0.165	P=0.735	P=0.321	P=0.293
POLY 3	P=0.180	P=0.749	P=0.302	P=0.314
POLY 1.5	P=0.175	P=0.755	P=0.303	P=0.312
POLY 6	P=0.186	P=0.739	P=0.301	P=0.315
LOGISTIC REGRESSION	P=0.178	P=0.735	P=0.296	P=0.310
COCH-ARM / FISHERS	P=0.165	P=0.753N	P=0.309	P=0.309
ORDER RESTRICTED	P=0.243	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM
Kidney: Renal Tubule Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	5/50 (10%)	8/50 (16%)	7/50 (14%)
POLY-3 RATE (b)	2/41.6	5/39.92	8/41.76	7/43.26
POLY-3 PERCENT (g)	4.8%	12.5%	19.2%	16.2%
TERMINAL (d)	2/26 (8%)	2/23 (9%)	4/27 (15%)	4/24 (17%)
FIRST INCIDENCE	729 (T)	665	639	618
STATISTICAL TESTS				
LIFE TABLE	P=0.082	P=0.171	P=0.050*	P=0.077
POLY 3	P=0.087	P=0.198	P=0.044*	P=0.087
POLY 1.5	P=0.081	P=0.207	P=0.044*	P=0.084
POLY 6	P=0.093	P=0.184	P=0.044*	P=0.089
LOGISTIC REGRESSION	P=0.084	P=0.172	P=0.042*	P=0.084
COCH-ARM / FISHERS	P=0.073	P=0.218	P=0.046*	P=0.080
ORDER RESTRICTED	P=0.054	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:49:51

First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
Hepatocellular Carcinoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/41.6	0/39.38	0/40.98	2/42.53
POLY-3 PERCENT (g)	0%	0%	0%	4.7%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	---	---	---	677

STATISTICAL TESTS

LIFE TABLE	P=0.050*	(e)	(e)	P=0.231
POLY 3	P=0.047*	(e)	(e)	P=0.242
POLY 1.5	P=0.047*	(e)	(e)	P=0.241
POLY 6	P=0.048*	(e)	(e)	P=0.241
LOGISTIC REGRESSION	P=0.050*	(e)	(e)	P=0.240
COCH-ARM / FISHERS	P=0.046*	(e)	(e)	P=0.247
ORDER RESTRICTED	P=0.031*	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:49:51

First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
Hepatocellular Carcinoma or Hepatocellular Adenoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/41.6	0/39.38	1/41.3	2/42.53
POLY-3 PERCENT (g)	0%	0%	2.4%	4.7%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	---	---	639	677

STATISTICAL TESTS

LIFE TABLE	P=0.078	(e)	P=0.511	P=0.231
POLY 3	P=0.075	(e)	P=0.499	P=0.242
POLY 1.5	P=0.073	(e)	P=0.499	P=0.241
POLY 6	P=0.077	(e)	P=0.498	P=0.241
LOGISTIC REGRESSION	P=0.072	(e)	P=0.505	P=0.240
COCH-ARM / FISHERS	P=0.070	(e)	P=0.500	P=0.247
ORDER RESTRICTED	P=0.077	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:49:51

First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/41.6	0/39.38	1/41.3	2/42.53
POLY-3 PERCENT (g)	0%	0%	2.4%	4.7%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	---	---	639	677

STATISTICAL TESTS

LIFE TABLE	P=0.078	(e)	P=0.511	P=0.231
POLY 3	P=0.075	(e)	P=0.499	P=0.242
POLY 1.5	P=0.073	(e)	P=0.499	P=0.241
POLY 6	P=0.077	(e)	P=0.498	P=0.241
LOGISTIC REGRESSION	P=0.072	(e)	P=0.505	P=0.240
COCH-ARM / FISHERS	P=0.070	(e)	P=0.500	P=0.247
ORDER RESTRICTED	P=0.077	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM
Lung				
Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	1/41.6	2/39.38	2/41.2	2/42.33
POLY-3 PERCENT (g)	2.4%	5.1%	4.9%	4.7%
TERMINAL (d)	1/26 (4%)	2/23 (9%)	1/27 (4%)	2/24 (8%)
FIRST INCIDENCE	729 (T)	729 (T)	670	729 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.412	P=0.457	P=0.505	P=0.472
POLY 3	P=0.437	P=0.481	P=0.497	P=0.506
POLY 1.5	P=0.433	P=0.491	P=0.497	P=0.505
POLY 6	P=0.439	P=0.465	P=0.495	P=0.504
LOGISTIC REGRESSION	P=0.437	P=0.457	P=0.491	P=0.472
COCH-ARM / FISHERS	P=0.423	P=0.500	P=0.500	P=0.500
ORDER RESTRICTED	P=0.452	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:49:51

First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung
Alveolar/Bronchiolar Carcinoma

TUMOR RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/41.6	0/39.38	1/40.98	3/42.74
POLY-3 PERCENT (g)	2.4%	0%	2.4%	7%
TERMINAL (d)	1/26 (4%)	0/23 (0%)	1/27 (4%)	1/24 (4%)
FIRST INCIDENCE	729 (T)	---	729 (T)	674

STATISTICAL TESTS

LIFE TABLE	P=0.100	P=0.524N	P=0.754N	P=0.294
POLY 3	P=0.104	P=0.511N	P=0.758	P=0.314
POLY 1.5	P=0.101	P=0.505N	P=0.758	P=0.312
POLY 6	P=0.108	P=0.520N	P=0.756	P=0.316
LOGISTIC REGRESSION	P=0.105	(e)	P=0.754N	P=0.310
COCH-ARM / FISHERS	P=0.097	P=0.500N	P=0.753N	P=0.309
ORDER RESTRICTED	P=0.089	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung
 Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma

TUMOR RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)	3/50 (6%)	5/50 (10%)
POLY-3 RATE (b)	2/41.6	2/39.38	3/41.2	5/42.74
POLY-3 PERCENT (g)	4.8%	5.1%	7.3%	11.7%
TERMINAL (d)	2/26 (8%)	2/23 (9%)	2/27 (7%)	3/24 (13%)
FIRST INCIDENCE	729 (T)	729 (T)	670	674

STATISTICAL TESTS

LIFE TABLE	P=0.110	P=0.652	P=0.511	P=0.196
POLY 3	P=0.125	P=0.675	P=0.496	P=0.226
POLY 1.5	P=0.121	P=0.685	P=0.497	P=0.224
POLY 6	P=0.130	P=0.659	P=0.494	P=0.226
LOGISTIC REGRESSION	P=0.126	P=0.652	P=0.484	P=0.217
COCH-ARM / FISHERS	P=0.114	P=0.691N	P=0.500	P=0.218
ORDER RESTRICTED	P=0.169	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	2/41.96	0/39.38	2/40.98	0/42.33
POLY-3 PERCENT (g)	4.8%	0%	4.9%	0%
TERMINAL (d)	1/26 (4%)	0/23 (0%)	2/27 (7%)	0/24 (0%)
FIRST INCIDENCE	628	---	729 (T)	---
STATISTICAL TESTS				
LIFE TABLE	P=0.246N	P=0.263N	P=0.679N	P=0.237N
POLY 3	P=0.234N	P=0.251N	P=0.686	P=0.235N
POLY 1.5	P=0.239N	P=0.244N	P=0.689	P=0.235N
POLY 6	P=0.228N	P=0.263N	P=0.681	P=0.237N
LOGISTIC REGRESSION	P=0.240N	P=0.240N	P=0.688	P=0.238N
COCH-ARM / FISHERS	P=0.247N	P=0.247N	P=0.691N	P=0.247N
ORDER RESTRICTED	P=0.114N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	2/41.96	0/39.38	2/40.98	0/42.33
POLY-3 PERCENT (g)	4.8%	0%	4.9%	0%
TERMINAL (d)	1/26 (4%)	0/23 (0%)	2/27 (7%)	0/24 (0%)
FIRST INCIDENCE	628	---	729 (T)	---
STATISTICAL TESTS				
LIFE TABLE	P=0.246N	P=0.263N	P=0.679N	P=0.237N
POLY 3	P=0.234N	P=0.251N	P=0.686	P=0.235N
POLY 1.5	P=0.239N	P=0.244N	P=0.689	P=0.235N
POLY 6	P=0.228N	P=0.263N	P=0.681	P=0.237N
LOGISTIC REGRESSION	P=0.240N	P=0.240N	P=0.688	P=0.238N
COCH-ARM / FISHERS	P=0.247N	P=0.247N	P=0.691N	P=0.247N
ORDER RESTRICTED	P=0.114N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	0/41.6	1/39.38	3/40.98	2/42.33
POLY-3 PERCENT (g)	0%	2.5%	7.3%	4.7%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	3/27 (11%)	2/24 (8%)
FIRST INCIDENCE	---	729 (T)	729 (T)	729 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.151	P=0.476	P=0.126	P=0.220
POLY 3	P=0.174	P=0.489	P=0.115	P=0.241
POLY 1.5	P=0.171	P=0.495	P=0.117	P=0.240
POLY 6	P=0.175	P=0.480	P=0.113	P=0.239
LOGISTIC REGRESSION	(e)	P=0.476	P=0.126	P=0.220
COCH-ARM / FISHERS	P=0.163	P=0.500	P=0.121	P=0.247
ORDER RESTRICTED	P=0.105	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Mammary Gland
 Fibroma, Fibroadenoma or Adenoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	0/41.6	1/39.38	3/40.98	2/42.33
POLY-3 PERCENT (g)	0%	2.5%	7.3%	4.7%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	3/27 (11%)	2/24 (8%)
FIRST INCIDENCE	---	729 (T)	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.151	P=0.476	P=0.126	P=0.220
POLY 3	P=0.174	P=0.489	P=0.115	P=0.241
POLY 1.5	P=0.171	P=0.495	P=0.117	P=0.240
POLY 6	P=0.175	P=0.480	P=0.113	P=0.239
LOGISTIC REGRESSION (e)		P=0.476	P=0.126	P=0.220
COCH-ARM / FISHERS	P=0.163	P=0.500	P=0.121	P=0.247
ORDER RESTRICTED	P=0.105	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:49:51

First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Mammary Gland
Fibroma, Fibroadenoma, Carcinoma, or Adenoma

TUMOR RATES

	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	5/50 (10%)	2/50 (4%)
POLY-3 RATE (b)	2/41.96	1/39.38	5/40.98	2/42.33
POLY-3 PERCENT (g)	4.8%	2.5%	12.2%	4.7%
TERMINAL (d)	1/26 (4%)	1/23 (4%)	5/27 (19%)	2/24 (8%)
FIRST INCIDENCE	628	729 (T)	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.446	P=0.538N	P=0.231	P=0.682
POLY 3	P=0.479	P=0.522N	P=0.205	P=0.691N
POLY 1.5	P=0.471	P=0.511N	P=0.210	P=0.690N
POLY 6	P=0.482	P=0.540N	P=0.197	P=0.694
LOGISTIC REGRESSION	P=0.475	P=0.522N	P=0.202	P=0.690N
COCH-ARM / FISHERS	P=0.456	P=0.500N	P=0.218	P=0.691N
ORDER RESTRICTED	P=0.283	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM
Nose Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	7/50 (14%)	18/49 (37%)	10/50 (20%)
POLY-3 RATE (b)	0/41.6	7/39.78	18/41.65	10/42.94
POLY-3 PERCENT (g)	0%	17.6%	43.2%	23.3%
TERMINAL (d)	0/26 (0%)	5/23 (22%)	13/27 (48%)	7/24 (29%)
FIRST INCIDENCE	---	639	638	674
STATISTICAL TESTS				
LIFE TABLE	P=0.004**	P=0.006**	P<0.001**	P<0.001**
POLY 3	P=0.004**	P=0.006**	P<0.001**	P<0.001**
POLY 1.5	P=0.003**	P=0.007**	P<0.001**	P<0.001**
POLY 6	P=0.004**	P=0.005**	P<0.001**	P<0.001**
LOGISTIC REGRESSION	P=0.005**	P=0.005**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.005**	P=0.006**	P<0.001**	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

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

TUMOR RATES

OVERALL (a)	36/50 (72%)	38/50 (76%)	25/49 (51%)	30/50 (60%)
POLY-3 RATE (b)	36/47.26	38/47.25	25/42.79	30/47.7
POLY-3 PERCENT (g)	76.2%	80.4%	58.4%	62.9%
TERMINAL (d)	20/26 (77%)	18/23 (78%)	17/27 (63%)	13/24 (54%)
FIRST INCIDENCE	296	480	625	453

STATISTICAL TESTS

LIFE TABLE	P=0.099N	P=0.218	P=0.039N*	P=0.271N
POLY 3	P=0.030N*	P=0.396	P=0.048N*	P=0.110N
POLY 1.5	P=0.035N*	P=0.399	P=0.038N*	P=0.123N
POLY 6	P=0.026N*	P=0.398	P=0.066N	P=0.101N
LOGISTIC REGRESSION	P=0.041N*	P=0.398	P=0.025N*	P=0.151N
COCH-ARM / FISHERS	P=0.048N*	P=0.410	P=0.026N*	P=0.146N
ORDER RESTRICTED	P=0.032N*	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

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

TUMOR RATES

OVERALL (a)	36/50 (72%)	38/50 (76%)	25/49 (51%)	30/50 (60%)
POLY-3 RATE (b)	36/47.26	38/47.25	25/42.79	30/47.7
POLY-3 PERCENT (g)	76.2%	80.4%	58.4%	62.9%
TERMINAL (d)	20/26 (77%)	18/23 (78%)	17/27 (63%)	13/24 (54%)
FIRST INCIDENCE	296	480	625	453

STATISTICAL TESTS

LIFE TABLE	P=0.099N	P=0.218	P=0.039N*	P=0.271N
POLY 3	P=0.030N*	P=0.396	P=0.048N*	P=0.110N
POLY 1.5	P=0.035N*	P=0.399	P=0.038N*	P=0.123N
POLY 6	P=0.026N*	P=0.398	P=0.066N	P=0.101N
LOGISTIC REGRESSION	P=0.041N*	P=0.398	P=0.025N*	P=0.151N
COCH-ARM / FISHERS	P=0.048N*	P=0.410	P=0.026N*	P=0.146N
ORDER RESTRICTED	P=0.032N*	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/41.6	1/39.38	1/40.98	2/42.33
POLY-3 PERCENT (g)	2.4%	2.5%	2.4%	4.7%
TERMINAL (d)	1/26 (4%)	1/23 (4%)	1/27 (4%)	2/24 (8%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.337	P=0.735	P=0.754N	P=0.472
POLY 3	P=0.363	P=0.749	P=0.758	P=0.506
POLY 1.5	P=0.360	P=0.755	P=0.758	P=0.505
POLY 6	P=0.366	P=0.739	P=0.756	P=0.504
LOGISTIC REGRESSION	P=0.337	P=0.735	P=0.754N	P=0.472
COCH-ARM / FISHERS	P=0.351	P=0.753N	P=0.753N	P=0.500
ORDER RESTRICTED	P=0.423	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Skin
 Basal Cell Carcinoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/41.6	0/39.38	2/41.7	0/42.33
POLY-3 PERCENT (g)	0%	0%	4.8%	0%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	554	---

STATISTICAL TESTS

LIFE TABLE	P=0.593	(e)	P=0.224	(e)
POLY 3	P=0.613	(e)	P=0.237	(e)
POLY 1.5	P=0.608	(e)	P=0.237	(e)
POLY 6	P=0.617	(e)	P=0.238	(e)
LOGISTIC REGRESSION	P=0.578	(e)	P=0.246	(e)
COCH-ARM / FISHERS	P=0.595	(e)	P=0.247	(e)
ORDER RESTRICTED	P=0.247	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 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%)	1/50 (2%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	1/41.6	1/39.38	3/41.7	2/42.33
POLY-3 PERCENT (g)	2.4%	2.5%	7.2%	4.7%
TERMINAL (d)	1/26 (4%)	1/23 (4%)	1/27 (4%)	2/24 (8%)
FIRST INCIDENCE	729 (T)	729 (T)	554	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.316	P=0.735	P=0.301	P=0.472
POLY 3	P=0.342	P=0.749	P=0.305	P=0.506
POLY 1.5	P=0.337	P=0.755	P=0.305	P=0.505
POLY 6	P=0.346	P=0.739	P=0.306	P=0.504
LOGISTIC REGRESSION	P=0.338	P=0.735	P=0.304	P=0.472
COCH-ARM / FISHERS	P=0.324	P=0.753N	P=0.309	P=0.500
ORDER RESTRICTED	P=0.331	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 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)	5/50 (10%)	3/50 (6%)	6/50 (12%)	5/50 (10%)
POLY-3 RATE (b)	5/42.22	3/39.38	6/41.7	5/42.57
POLY-3 PERCENT (g)	11.8%	7.6%	14.4%	11.8%
TERMINAL (d)	2/26 (8%)	3/23 (13%)	4/27 (15%)	3/24 (13%)
FIRST INCIDENCE	613	729 (T)	554	677
STATISTICAL TESTS				
LIFE TABLE	P=0.444	P=0.439N	P=0.494	P=0.599
POLY 3	P=0.478	P=0.394N	P=0.491	P=0.626N
POLY 1.5	P=0.469	P=0.375N	P=0.494	P=0.624N
POLY 6	P=0.484	P=0.427N	P=0.484	P=0.630
LOGISTIC REGRESSION	P=0.479	P=0.414N	P=0.491	P=0.623N
COCH-ARM / FISHERS	P=0.451	P=0.357N	P=0.500	P=0.630N
ORDER RESTRICTED	P=0.500	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM
Skin Fibroma				
TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	3/50 (6%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	3/41.95	3/39.46	3/41.14	4/42.6
POLY-3 PERCENT (g)	7.2%	7.6%	7.3%	9.4%
TERMINAL (d)	2/26 (8%)	2/23 (9%)	2/27 (7%)	2/24 (8%)
FIRST INCIDENCE	632	711	688	677
STATISTICAL TESTS				
LIFE TABLE	P=0.406	P=0.604	P=0.654N	P=0.483
POLY 3	P=0.423	P=0.635	P=0.654	P=0.508
POLY 1.5	P=0.417	P=0.649	P=0.657	P=0.507
POLY 6	P=0.427	P=0.611	P=0.649	P=0.506
LOGISTIC REGRESSION	P=0.428	P=0.611	P=0.654	P=0.508
COCH-ARM / FISHERS	P=0.404	P=0.661N	P=0.661N	P=0.500
ORDER RESTRICTED	P=0.549	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	3/50 (6%)	3/50 (6%)	5/50 (10%)
POLY-3 RATE (b)	3/41.95	3/39.46	3/41.14	5/42.6
POLY-3 PERCENT (g)	7.2%	7.6%	7.3%	11.7%
TERMINAL (d)	2/26 (8%)	2/23 (9%)	2/27 (7%)	3/24 (13%)
FIRST INCIDENCE	632	711	688	677

STATISTICAL TESTS

LIFE TABLE	P=0.258	P=0.604	P=0.654N	P=0.338
POLY 3	P=0.271	P=0.635	P=0.654	P=0.364
POLY 1.5	P=0.267	P=0.649	P=0.657	P=0.364
POLY 6	P=0.274	P=0.611	P=0.649	P=0.360
LOGISTIC REGRESSION	P=0.277	P=0.611	P=0.654	P=0.362
COCH-ARM / FISHERS	P=0.256	P=0.661N	P=0.661N	P=0.357
ORDER RESTRICTED	P=0.355	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM
Skin				
Keratoacanthoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	2/50 (4%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	4/42.22	2/39.38	2/40.98	3/42.57
POLY-3 PERCENT (g)	9.5%	5.1%	4.9%	7.1%
TERMINAL (d)	1/26 (4%)	2/23 (9%)	2/27 (7%)	1/24 (4%)
FIRST INCIDENCE	613	729 (T)	729 (T)	677
STATISTICAL TESTS				
LIFE TABLE	P=0.480N	P=0.411N	P=0.344N	P=0.516N
POLY 3	P=0.464N	P=0.369N	P=0.350N	P=0.496N
POLY 1.5	P=0.470N	P=0.353N	P=0.345N	P=0.495N
POLY 6	P=0.458N	P=0.396N	P=0.360N	P=0.502N
LOGISTIC REGRESSION	P=0.458N	P=0.373N	P=0.344N	P=0.492N
COCH-ARM / FISHERS	P=0.479N	P=0.339N	P=0.339N	P=0.500N
ORDER RESTRICTED	P=0.382N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:49:51

First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 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%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/41.6	0/39.38	2/41.7	0/42.33
POLY-3 PERCENT (g)	0%	0%	4.8%	0%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	554	---

STATISTICAL TESTS

LIFE TABLE	P=0.593	(e)	P=0.224	(e)
POLY 3	P=0.613	(e)	P=0.237	(e)
POLY 1.5	P=0.608	(e)	P=0.237	(e)
POLY 6	P=0.617	(e)	P=0.238	(e)
LOGISTIC REGRESSION	P=0.578	(e)	P=0.246	(e)
COCH-ARM / FISHERS	P=0.595	(e)	P=0.247	(e)
ORDER RESTRICTED	P=0.247	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
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 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	2/50 (4%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	4/42.22	2/39.38	3/40.98	3/42.57
POLY-3 PERCENT (g)	9.5%	5.1%	7.3%	7.1%
TERMINAL (d)	1/26 (4%)	2/23 (9%)	3/27 (11%)	1/24 (4%)
FIRST INCIDENCE	613	729 (T)	729 (T)	677

STATISTICAL TESTS

LIFE TABLE	P=0.502N	P=0.411N	P=0.502N	P=0.516N
POLY 3	P=0.482N	P=0.369N	P=0.516N	P=0.496N
POLY 1.5	P=0.489N	P=0.353N	P=0.510N	P=0.495N
POLY 6	P=0.477N	P=0.396N	P=0.529N	P=0.502N
LOGISTIC REGRESSION	P=0.478N	P=0.373N	P=0.511N	P=0.492N
COCH-ARM / FISHERS	P=0.500N	P=0.339N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.469N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
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 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	4/50 (8%)	2/50 (4%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	4/42.22	2/39.38	3/40.98	3/42.57
POLY-3 PERCENT (g)	9.5%	5.1%	7.3%	7.1%
TERMINAL (d)	1/26 (4%)	2/23 (9%)	3/27 (11%)	1/24 (4%)
FIRST INCIDENCE	613	729 (T)	729 (T)	677

STATISTICAL TESTS

LIFE TABLE	P=0.502N	P=0.411N	P=0.502N	P=0.516N
POLY 3	P=0.482N	P=0.369N	P=0.516N	P=0.496N
POLY 1.5	P=0.489N	P=0.353N	P=0.510N	P=0.495N
POLY 6	P=0.477N	P=0.396N	P=0.529N	P=0.502N
LOGISTIC REGRESSION	P=0.478N	P=0.373N	P=0.511N	P=0.492N
COCH-ARM / FISHERS	P=0.500N	P=0.339N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.469N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM
Testes				
Adenoma				
TUMOR RATES				
OVERALL (a)	36/50 (72%)	38/50 (76%)	40/50 (80%)	46/50 (92%)
POLY-3 RATE (b)	36/44.99	38/44.9	40/46.66	46/47.89
POLY-3 PERCENT (g)	80%	84.6%	85.7%	96.1%
TERMINAL (d)	24/26 (92%)	22/23 (96%)	25/27 (93%)	24/24 (100%)
FIRST INCIDENCE	558	536	460	541
STATISTICAL TESTS				
LIFE TABLE	P=0.049*	P=0.162	P=0.341	P=0.039*
POLY 3	P=0.006**	P=0.370	P=0.311	P=0.007**
POLY 1.5	P=0.005**	P=0.397	P=0.270	P=0.007**
POLY 6	P=0.008**	P=0.335	P=0.370	P=0.008**
LOGISTIC REGRESSION	P=0.007**	P=0.223	P=0.194	P=0.008**
COCH-ARM / FISHERS	P=0.006**	P=0.410	P=0.241	P=0.009**
ORDER RESTRICTED	P=0.005**	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Thyroid Gland: C-Cell
 Adenoma**

TUMOR RATES

OVERALL (a)	3/50 (6%)	7/50 (14%)	1/50 (2%)	4/50 (8%)
POLY-3 RATE (b)	3/42.57	7/40.25	1/41.08	4/42.53
POLY-3 PERCENT (g)	7.1%	17.4%	2.4%	9.4%
TERMINAL (d)	1/26 (4%)	3/23 (13%)	0/27 (0%)	3/24 (13%)
FIRST INCIDENCE	571	589	702	677

STATISTICAL TESTS

LIFE TABLE	P=0.480N	P=0.122	P=0.323N	P=0.479
POLY 3	P=0.485N	P=0.133	P=0.318N	P=0.500
POLY 1.5	P=0.481N	P=0.145	P=0.313N	P=0.502
POLY 6	P=0.495N	P=0.116	P=0.325N	P=0.491
LOGISTIC REGRESSION	P=0.468N	P=0.154	P=0.299N	P=0.500
COCH-ARM / FISHERS	P=0.482N	P=0.159	P=0.309N	P=0.500
ORDER RESTRICTED	P=0.251N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Thyroid Gland: C-Cell
 Carcinoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/41.6	2/39.98	1/40.98	2/42.33
POLY-3 PERCENT (g)	2.4%	5%	2.4%	4.7%
TERMINAL (d)	1/26 (4%)	1/23 (4%)	1/27 (4%)	2/24 (8%)
FIRST INCIDENCE	729 (T)	541	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.435	P=0.467	P=0.754N	P=0.472
POLY 3	P=0.454	P=0.486	P=0.758	P=0.506
POLY 1.5	P=0.452	P=0.494	P=0.758	P=0.505
POLY 6	P=0.454	P=0.474	P=0.756	P=0.504
LOGISTIC REGRESSION	P=0.457	P=0.502	P=0.754N	P=0.472
COCH-ARM / FISHERS	P=0.444	P=0.500	P=0.753N	P=0.500
ORDER RESTRICTED	P=0.450	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

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First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Thyroid Gland: C-Cell
Carcinoma or Adenoma

TUMOR RATES

OVERALL (a)	3/50 (6%)	9/50 (18%)	2/50 (4%)	6/50 (12%)
POLY-3 RATE (b)	3/42.57	9/40.84	2/41.08	6/42.53
POLY-3 PERCENT (g)	7.1%	22%	4.9%	14.1%
TERMINAL (d)	1/26 (4%)	4/23 (17%)	1/27 (4%)	5/24 (21%)
FIRST INCIDENCE	571	541	702	677

STATISTICAL TESTS

LIFE TABLE	P=0.437	P=0.046*	P=0.511N	P=0.222
POLY 3	P=0.432	P=0.048*	P=0.516N	P=0.240
POLY 1.5	P=0.437	P=0.054	P=0.510N	P=0.244
POLY 6	P=0.419	P=0.040*	P=0.526N	P=0.230
LOGISTIC REGRESSION	P=0.454	P=0.062	P=0.498N	P=0.248
COCH-ARM / FISHERS	P=0.437	P=0.061	P=0.500N	P=0.243
ORDER RESTRICTED	P=0.241	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
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 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Thyroid Gland: Follicular Cell
 Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/41.6	1/39.55	0/40.98	1/42.41
POLY-3 PERCENT (g)	0%	2.5%	0%	2.4%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	---	686	---	711

STATISTICAL TESTS

LIFE TABLE	P=0.411	P=0.446	(e)	P=0.500
POLY 3	P=0.410	P=0.490	(e)	P=0.504
POLY 1.5	P=0.409	P=0.495	(e)	P=0.503
POLY 6	P=0.408	P=0.482	(e)	P=0.503
LOGISTIC REGRESSION	P=0.413	P=0.493	(e)	P=0.502
COCH-ARM / FISHERS	P=0.405	P=0.500	(e)	P=0.500
ORDER RESTRICTED	P=0.254	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Thyroid Gland: Follicular Cell
 Carcinoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	2/41.6	0/39.38	0/40.98	2/42.53
POLY-3 PERCENT (g)	4.8%	0%	0%	4.7%
TERMINAL (d)	2/26 (8%)	0/23 (0%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	729 (T)	---	---	677

STATISTICAL TESTS

LIFE TABLE	P=0.497	P=0.265N	P=0.229N	P=0.673
POLY 3	P=0.514	P=0.249N	P=0.240N	P=0.686N
POLY 1.5	P=0.508	P=0.243N	P=0.239N	P=0.688N
POLY 6	P=0.522	P=0.259N	P=0.242N	P=0.687N
LOGISTIC REGRESSION	P=0.512	(e)	(e)	P=0.696N
COCH-ARM / FISHERS	P=0.500	P=0.247N	P=0.247N	P=0.691N
ORDER RESTRICTED	P=0.268N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
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 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

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

TUMOR RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	2/41.6	1/39.55	0/40.98	3/42.6
POLY-3 PERCENT (g)	4.8%	2.5%	0%	7%
TERMINAL (d)	2/26 (8%)	0/23 (0%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	729 (T)	686	---	677

STATISTICAL TESTS

LIFE TABLE	P=0.339	P=0.559N	P=0.229N	P=0.478
POLY 3	P=0.348	P=0.518N	P=0.240N	P=0.511
POLY 1.5	P=0.344	P=0.509N	P=0.239N	P=0.508
POLY 6	P=0.353	P=0.532N	P=0.242N	P=0.512
LOGISTIC REGRESSION	P=0.353	P=0.547N	(e)	P=0.501
COCH-ARM / FISHERS	P=0.337	P=0.500N	P=0.247N	P=0.500
ORDER RESTRICTED	P=0.200	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
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 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Urinary Bladder
 Carcinoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/49 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/41.6	0/39.38	2/41.81	1/42.33
POLY-3 PERCENT (g)	0%	0%	4.8%	2.4%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	---	---	213	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.252	(e)	P=0.249	P=0.484
POLY 3	P=0.259	(e)	P=0.238	P=0.503
POLY 1.5	P=0.254	(e)	P=0.236	P=0.503
POLY 6	P=0.262	(e)	P=0.239	P=0.503
LOGISTIC REGRESSION	P=0.167	(e)	P=0.265	P=0.484
COCH-ARM / FISHERS	P=0.246	(e)	P=0.242	P=0.500
ORDER RESTRICTED	P=0.168	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
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 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Urinary Bladder
 Carcinoma or Papilloma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/49 (4%)	3/50 (6%)
POLY-3 RATE (b)	0/41.6	0/39.38	2/41.81	3/42.53
POLY-3 PERCENT (g)	0%	0%	4.8%	7.1%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	2/24 (8%)
FIRST INCIDENCE	---	---	213	677

STATISTICAL TESTS

LIFE TABLE	P=0.031*	(e)	P=0.249	P=0.113
POLY 3	P=0.030*	(e)	P=0.238	P=0.122
POLY 1.5	P=0.029*	(e)	P=0.236	P=0.122
POLY 6	P=0.031*	(e)	P=0.239	P=0.121
LOGISTIC REGRESSION	P=0.016*	(e)	P=0.265	P=0.121
COCH-ARM / FISHERS	P=0.028*	(e)	P=0.242	P=0.121
ORDER RESTRICTED	P=0.038*	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
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 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM
Urinary Bladder Papilloma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/41.6	0/39.38	0/40.5	2/42.53
POLY-3 PERCENT (g)	0%	0%	0%	4.7%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	---	---	---	677
STATISTICAL TESTS				
LIFE TABLE	P=0.050*	(e)	(e)	P=0.231
POLY 3	P=0.048*	(e)	(e)	P=0.242
POLY 1.5	P=0.047*	(e)	(e)	P=0.241
POLY 6	P=0.049*	(e)	(e)	P=0.241
LOGISTIC REGRESSION	P=0.050*	(e)	(e)	P=0.240
COCH-ARM / FISHERS	P=0.047*	(e)	(e)	P=0.247
ORDER RESTRICTED	P=0.031*	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

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 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM
Zymbal's Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/42.29	0/39.38	0/40.98	2/43.02
POLY-3 PERCENT (g)	2.4%	0%	0%	4.7%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	495	---	---	584
STATISTICAL TESTS				
LIFE TABLE	P=0.261	P=0.500N	P=0.500N	P=0.507
POLY 3	P=0.256	P=0.514N	P=0.506N	P=0.506
POLY 1.5	P=0.251	P=0.507N	P=0.504N	P=0.505
POLY 6	P=0.261	P=0.525N	P=0.510N	P=0.506
LOGISTIC REGRESSION	P=0.201	P=0.582N	P=0.454N	P=0.405
COCH-ARM / FISHERS	P=0.246	P=0.500N	P=0.500N	P=0.500
ORDER RESTRICTED	P=0.137	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
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 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	26/50 (52%)	32/50 (64%)	31/50 (62%)	28/50 (56%)
POLY-3 RATE (b)	26/44.95	32/45.92	31/47.3	28/46.67
POLY-3 PERCENT (g)	57.8%	69.7%	65.5%	60%
TERMINAL (d)	12/26 (46%)	14/23 (61%)	13/27 (48%)	11/24 (46%)
FIRST INCIDENCE	600	519	460	515

STATISTICAL TESTS

LIFE TABLE	P=0.522	P=0.098	P=0.279	P=0.402
POLY 3	P=0.490N	P=0.160	P=0.289	P=0.501
POLY 1.5	P=0.522N	P=0.162	P=0.250	P=0.477
POLY 6	P=0.468N	P=0.154	P=0.337	P=0.515
LOGISTIC REGRESSION	P=0.507	P=0.131	P=0.202	P=0.445
COCH-ARM / FISHERS	P=0.490	P=0.156	P=0.210	P=0.421
ORDER RESTRICTED	P=0.368	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
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 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

All Organs
 Mesothelioma: Benign, Malignant, NOS

TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	2/50 (4%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	3/42.05	2/40.1	3/41.65	1/42.33
POLY-3 PERCENT (g)	7.1%	5%	7.2%	2.4%
TERMINAL (d)	2/26 (8%)	0/23 (0%)	1/27 (4%)	1/24 (4%)
FIRST INCIDENCE	599	575	634	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.255N	P=0.554N	P=0.639N	P=0.325N
POLY 3	P=0.253N	P=0.522N	P=0.659	P=0.302N
POLY 1.5	P=0.257N	P=0.510N	P=0.659	P=0.302N
POLY 6	P=0.252N	P=0.539N	P=0.658	P=0.306N
LOGISTIC REGRESSION	P=0.264N	P=0.494N	P=0.662	P=0.300N
COCH-ARM / FISHERS	P=0.263N	P=0.500N	P=0.661N	P=0.309N
ORDER RESTRICTED	P=0.262N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
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 Pathologist: PIERCE, J. - 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	250 PPM	500 PPM	1000 PPM

**All Organs
 Mesothelioma: Malignant**

TUMOR RATES	#	#	#	#
OVERALL (a)	3/50 (6%)	2/50 (4%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	3/42.05	2/40.1	3/41.65	1/42.33
POLY-3 PERCENT (g)	7.1%	5%	7.2%	2.4%
TERMINAL (d)	2/26 (8%)	0/23 (0%)	1/27 (4%)	1/24 (4%)
FIRST INCIDENCE	599	575	634	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.255N	P=0.554N	P=0.639N	P=0.325N
POLY 3	P=0.253N	P=0.522N	P=0.659	P=0.302N
POLY 1.5	P=0.257N	P=0.510N	P=0.659	P=0.302N
POLY 6	P=0.252N	P=0.539N	P=0.658	P=0.306N
LOGISTIC REGRESSION	P=0.264N	P=0.494N	P=0.662	P=0.300N
COCH-ARM / FISHERS	P=0.263N	P=0.500N	P=0.661N	P=0.309N
ORDER RESTRICTED	P=0.262N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
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 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**All Organs
 Benign Tumors**

TUMOR RATES

	#	#	#	#
OVERALL (a)	48/50 (96%)	48/50 (96%)	47/50 (94%)	50/50 (100%)
POLY-3 RATE (b)	48/49.24	48/48.59	47/48.21	50/50
POLY-3 PERCENT (g)	97.5%	98.8%	97.5%	100%
TERMINAL (d)	26/26 (100%)	23/23 (100%)	27/27 (100%)	24/24 (100%)
FIRST INCIDENCE	296	480	460	453

STATISTICAL TESTS

LIFE TABLE	P=0.440	P=0.251	P=0.465N	P=0.360
POLY 3	P=0.261	P=0.633	P=0.770	P=0.400
POLY 1.5	P=0.208	P=0.663	P=0.706N	P=0.317
POLY 6	P=0.360	P=0.608	P=0.788	P=0.518
LOGISTIC REGRESSION	P=0.277	P=0.680N	P=0.555N	P=0.277
COCH-ARM / FISHERS	P=0.199	P=0.691N	P=0.500N	P=0.247
ORDER RESTRICTED	P=0.163	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM
All Organs				
Malignant Tumors				
TUMOR RATES				
	#	#	#	#
OVERALL (a)	36/50 (72%)	37/50 (74%)	38/50 (76%)	39/50 (78%)
POLY-3 RATE (b)	36/46.45	37/47.41	38/49.18	39/48.52
POLY-3 PERCENT (g)	77.5%	78.1%	77.3%	80.4%
TERMINAL (d)	19/26 (73%)	16/23 (70%)	17/27 (63%)	17/24 (71%)
FIRST INCIDENCE	495	445	213	515
STATISTICAL TESTS				
LIFE TABLE	P=0.387	P=0.264	P=0.462	P=0.333
POLY 3	P=0.410	P=0.576	P=0.588N	P=0.462
POLY 1.5	P=0.357	P=0.559	P=0.540	P=0.412
POLY 6	P=0.468	P=0.576	P=0.525N	P=0.512
LOGISTIC REGRESSION	P=0.272	P=0.469	P=0.408	P=0.353
COCH-ARM / FISHERS	P=0.272	P=0.500	P=0.410	P=0.322
ORDER RESTRICTED	P=0.570	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:49:51

First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

All Organs
Malignant and Benign Tumors

TUMOR RATES

	#	#	#	#
OVERALL (a)	50/50 (100%)	50/50 (100%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	50/50	50/50	50/50	50/50
POLY-3 PERCENT (g)	100%	100%	100%	100%
TERMINAL (d)	26/26 (100%)	23/23 (100%)	27/27 (100%)	24/24 (100%)
FIRST INCIDENCE	296	445	213	453

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. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Adrenal Cortex
 Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/40.89	0/41.47	0/42.92	1/43.2
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	1/32 (3%)
FIRST INCIDENCE	---	---	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.238	(e)	(e)	P=0.584
POLY 3	P=0.206	(e)	(e)	P=0.511
POLY 1.5	P=0.203	(e)	(e)	P=0.505
POLY 6	P=0.211	(e)	(e)	P=0.520
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.584
COCH-ARM / FISHERS	P=0.200	(e)	(e)	P=0.500
ORDER RESTRICTED	P=0.130	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Adrenal Medulla
 Pheochromocytoma Benign**

TUMOR RATES

OVERALL (a)	1/50 (2%)	0/49 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/40.89	0/41.47	1/42.92	0/43.2
POLY-3 PERCENT (g)	2.5%	0%	2.3%	0%
TERMINAL (d)	1/21 (5%)	0/27 (0%)	1/31 (3%)	0/32 (0%)
FIRST INCIDENCE	730 (T)	---	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.330N	P=0.450N	P=0.673N	P=0.416N
POLY 3	P=0.400N	P=0.497N	P=0.750N	P=0.489N
POLY 1.5	P=0.402N	P=0.501N	P=0.755N	P=0.495N
POLY 6	P=0.396N	P=0.492N	P=0.742N	P=0.480N
LOGISTIC REGRESSION	P=0.330N	(e)	P=0.673N	(e)
COCH-ARM / FISHERS	P=0.404N	P=0.505N	P=0.753N	P=0.500N
ORDER RESTRICTED	P=0.241N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Adrenal Medulla
 Pheochromocytoma Malignant**

TUMOR RATES

OVERALL (a)	1/50 (2%)	1/49 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/40.92	1/41.47	1/42.92	0/43.2
POLY-3 PERCENT (g)	2.4%	2.4%	2.3%	0%
TERMINAL (d)	0/21 (0%)	1/27 (4%)	1/31 (3%)	0/32 (0%)
FIRST INCIDENCE	722	730 (T)	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.233N	P=0.709N	P=0.673N	P=0.425N
POLY 3	P=0.300N	P=0.758N	P=0.750N	P=0.489N
POLY 1.5	P=0.306N	P=0.759	P=0.755N	P=0.495N
POLY 6	P=0.292N	P=0.753N	P=0.743N	P=0.480N
LOGISTIC REGRESSION	P=0.260N	P=0.739N	P=0.719N	P=0.465N
COCH-ARM / FISHERS	P=0.310N	P=0.747	P=0.753N	P=0.500N
ORDER RESTRICTED	P=0.317N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Adrenal Medulla
Pheochromocytoma: Benign, Complex, Malignant, NOS

TUMOR RATES

OVERALL (a)	3/50 (6%)	1/49 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	3/40.98	1/41.47	2/42.92	0/43.2
POLY-3 PERCENT (g)	7.3%	2.4%	4.7%	0%
TERMINAL (d)	1/21 (5%)	1/27 (4%)	2/31 (7%)	0/32 (0%)
FIRST INCIDENCE	716	730 (T)	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.058N	P=0.244N	P=0.349N	P=0.073N
POLY 3	P=0.096N	P=0.300N	P=0.479N	P=0.109N
POLY 1.5	P=0.100N	P=0.308N	P=0.489N	P=0.114N
POLY 6	P=0.091N	P=0.292N	P=0.464N	P=0.101N
LOGISTIC REGRESSION	P=0.071N	P=0.268N	P=0.410N	P=0.089N
COCH-ARM / FISHERS	P=0.103N	P=0.316N	P=0.500N	P=0.121N
ORDER RESTRICTED	P=0.050N*	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Brain
 Oligodendroglioma, Glioma, or Astrocytoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	0/49 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/41.35	0/41.47	0/42.92	1/43.2
POLY-3 PERCENT (g)	4.8%	0%	0%	2.3%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	1/32 (3%)
FIRST INCIDENCE	613	---	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.409N	P=0.236N	P=0.221N	P=0.425N
POLY 3	P=0.461N	P=0.236N	P=0.229N	P=0.485N
POLY 1.5	P=0.459N	P=0.240N	P=0.233N	P=0.493N
POLY 6	P=0.463N	P=0.232N	P=0.223N	P=0.472N
LOGISTIC REGRESSION	P=0.457N	P=0.242N	P=0.242N	P=0.496N
COCH-ARM / FISHERS	P=0.459N	P=0.253N	P=0.247N	P=0.500N
ORDER RESTRICTED	P=0.121N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Clitoral/Preputial Gland
 Carcinoma**

TUMOR RATES

OVERALL (a)	2/50 (4%)	2/49 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/41.05	2/41.55	0/42.92	1/43.2
POLY-3 PERCENT (g)	4.9%	4.8%	0%	2.3%
TERMINAL (d)	1/21 (5%)	1/27 (4%)	0/31 (0%)	1/32 (3%)
FIRST INCIDENCE	688	709	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.221N	P=0.630N	P=0.185N	P=0.383N
POLY 3	P=0.286N	P=0.690N	P=0.227N	P=0.482N
POLY 1.5	P=0.290N	P=0.691	P=0.232N	P=0.492N
POLY 6	P=0.280N	P=0.683N	P=0.220N	P=0.468N
LOGISTIC REGRESSION	P=0.260N	P=0.678N	P=0.220N	P=0.456N
COCH-ARM / FISHERS	P=0.294N	P=0.684	P=0.247N	P=0.500N
ORDER RESTRICTED	P=0.252N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM
Clitoral/Preputial Gland Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	2/49 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/41.73	2/41.55	0/42.92	1/43.2
POLY-3 PERCENT (g)	7.2%	4.8%	0%	2.3%
TERMINAL (d)	1/21 (5%)	1/27 (4%)	0/31 (0%)	1/32 (3%)
FIRST INCIDENCE	501	709	---	730 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.117N	P=0.434N	P=0.093N	P=0.222N
POLY 3	P=0.158N	P=0.502N	P=0.113N	P=0.292N
POLY 1.5	P=0.160N	P=0.508N	P=0.116N	P=0.300N
POLY 6	P=0.154N	P=0.495N	P=0.109N	P=0.280N
LOGISTIC REGRESSION	P=0.161N	P=0.510N	P=0.129N	P=0.310N
COCH-ARM / FISHERS	P=0.162N	P=0.510N	P=0.121N	P=0.309N
ORDER RESTRICTED	P=0.100N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:49:51

First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Islets, Pancreatic
Adenoma

TUMOR RATES

OVERALL (a)	1/50 (2%)	0/49 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/40.89	0/41.47	0/42.92	1/43.2
POLY-3 PERCENT (g)	2.5%	0%	0%	2.3%
TERMINAL (d)	1/21 (5%)	0/27 (0%)	0/31 (0%)	1/32 (3%)
FIRST INCIDENCE	730 (T)	---	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.670	P=0.450N	P=0.422N	P=0.665N
POLY 3	P=0.600	P=0.497N	P=0.490N	P=0.749N
POLY 1.5	P=0.598	P=0.501N	P=0.495N	P=0.755N
POLY 6	P=0.604	P=0.492N	P=0.483N	P=0.738N
LOGISTIC REGRESSION	P=0.670	(e)	(e)	P=0.665N
COCH-ARM / FISHERS	P=0.596	P=0.505N	P=0.500N	P=0.753N
ORDER RESTRICTED	P=0.385N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Islets, Pancreatic
 Carcinoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	0/49 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/40.89	0/41.47	1/42.92	0/43.2
POLY-3 PERCENT (g)	2.5%	0%	2.3%	0%
TERMINAL (d)	1/21 (5%)	0/27 (0%)	1/31 (3%)	0/32 (0%)
FIRST INCIDENCE	730 (T)	---	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.330N	P=0.450N	P=0.673N	P=0.416N
POLY 3	P=0.400N	P=0.497N	P=0.750N	P=0.489N
POLY 1.5	P=0.402N	P=0.501N	P=0.755N	P=0.495N
POLY 6	P=0.396N	P=0.492N	P=0.742N	P=0.480N
LOGISTIC REGRESSION	P=0.330N	(e)	P=0.673N	(e)
COCH-ARM / FISHERS	P=0.404N	P=0.505N	P=0.753N	P=0.500N
ORDER RESTRICTED	P=0.241N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM
Islets, Pancreatic Carcinoma or Adenoma				
TUMOR RATES				
OVERALL (a)	2/50 (4%)	0/49 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/40.89	0/41.47	1/42.92	1/43.2
POLY-3 PERCENT (g)	4.9%	0%	2.3%	2.3%
TERMINAL (d)	2/21 (10%)	0/27 (0%)	1/31 (3%)	1/32 (3%)
FIRST INCIDENCE	730 (T)	---	730 (T)	730 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.388N	P=0.184N	P=0.365N	P=0.354N
POLY 3	P=0.494N	P=0.234N	P=0.483N	P=0.481N
POLY 1.5	P=0.495N	P=0.239N	P=0.491N	P=0.491N
POLY 6	P=0.491N	P=0.228N	P=0.471N	P=0.465N
LOGISTIC REGRESSION	P=0.388N	(e)	P=0.365N	P=0.354N
COCH-ARM / FISHERS	P=0.498N	P=0.253N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.254N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Kidney: Renal Tubule
 Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/42.41	0/42.92	0/43.2
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (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. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:49:51

First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Kidney: Renal Tubule
Carcinoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/42.41	0/42.92	0/43.2
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (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. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

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First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Kidney: Renal Tubule
Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/42.41	0/42.92	0/43.2
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (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. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
 Hepatocellular Carcinoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/42.41	0/42.92	0/43.2
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (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. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
 Hepatocellular Carcinoma or Hepatocellular Adenoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/42.41	0/42.92	0/43.2
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (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. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:49:51

First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/42.41	0/42.92	0/43.2
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (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. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung
 Alveolar/Bronchiolar Adenoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/40.89	0/42.41	0/42.92	1/43.2
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	1/32 (3%)
FIRST INCIDENCE	---	---	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.238	(e)	(e)	P=0.584
POLY 3	P=0.204	(e)	(e)	P=0.511
POLY 1.5	P=0.202	(e)	(e)	P=0.505
POLY 6	P=0.210	(e)	(e)	P=0.520
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.584
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
ORDER RESTRICTED	P=0.130	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Lung
 Alveolar/Bronchiolar Carcinoma**

TUMOR RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/41.1	0/42.41	1/43.82	0/43.2
POLY-3 PERCENT (g)	2.4%	0%	2.3%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (0%)
FIRST INCIDENCE	676	---	339	---

STATISTICAL TESTS

LIFE TABLE	P=0.391N	P=0.482N	P=0.747N	P=0.466N
POLY 3	P=0.401N	P=0.494N	P=0.746N	P=0.490N
POLY 1.5	P=0.403N	P=0.498N	P=0.752N	P=0.495N
POLY 6	P=0.397N	P=0.490N	P=0.739N	P=0.482N
LOGISTIC REGRESSION	P=0.427N	P=0.500N	P=0.765	P=0.501N
COCH-ARM / FISHERS	P=0.405N	P=0.500N	P=0.753N	P=0.500N
ORDER RESTRICTED	P=0.241N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung
 Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma

TUMOR RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/41.1	0/42.41	1/43.82	1/43.2
POLY-3 PERCENT (g)	2.4%	0%	2.3%	2.3%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	1/32 (3%)
FIRST INCIDENCE	676	---	339	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.583	P=0.482N	P=0.747N	P=0.694N
POLY 3	P=0.550	P=0.494N	P=0.746N	P=0.750N
POLY 1.5	P=0.544	P=0.498N	P=0.752N	P=0.756N
POLY 6	P=0.559	P=0.490N	P=0.739N	P=0.741N
LOGISTIC REGRESSION	P=0.522	P=0.500N	P=0.765	P=0.751N
COCH-ARM / FISHERS	P=0.539	P=0.500N	P=0.753N	P=0.753N
ORDER RESTRICTED	P=0.549	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	10/50 (20%)	9/50 (18%)	2/50 (4%)	5/50 (10%)
POLY-3 RATE (b)	10/41.83	9/42.51	2/42.98	5/44.47
POLY-3 PERCENT (g)	23.9%	21.2%	4.7%	11.2%
TERMINAL (d)	5/21 (24%)	8/27 (30%)	1/31 (3%)	1/32 (3%)
FIRST INCIDENCE	558	704	715	542
STATISTICAL TESTS				
LIFE TABLE	P=0.016N*	P=0.314N	P=0.005N**	P=0.056N
POLY 3	P=0.038N*	P=0.484N	P=0.011N*	P=0.101N
POLY 1.5	P=0.043N*	P=0.496N	P=0.012N*	P=0.115N
POLY 6	P=0.031N*	P=0.474N	P=0.009N**	P=0.081N
LOGISTIC REGRESSION	P=0.040N*	P=0.429N	P=0.011N*	P=0.125N
COCH-ARM / FISHERS	P=0.051N	P=0.500N	P=0.014N*	P=0.131N
ORDER RESTRICTED	P=0.024N*	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	10/50 (20%)	10/50 (20%)	2/50 (4%)	6/50 (12%)
POLY-3 RATE (b)	10/41.83	10/42.73	2/42.98	6/44.73
POLY-3 PERCENT (g)	23.9%	23.4%	4.7%	13.4%
TERMINAL (d)	5/21 (24%)	8/27 (30%)	1/31 (3%)	1/32 (3%)
FIRST INCIDENCE	558	673	715	542
STATISTICAL TESTS				
LIFE TABLE	P=0.031N*	P=0.407N	P=0.005N**	P=0.100N
POLY 3	P=0.063N	P=0.580N	P=0.011N*	P=0.162N
POLY 1.5	P=0.072N	P=0.593N	P=0.012N*	P=0.184N
POLY 6	P=0.051N	P=0.567N	P=0.009N**	P=0.133N
LOGISTIC REGRESSION	P=0.070N	P=0.535N	P=0.011N*	P=0.200N
COCH-ARM / FISHERS	P=0.084N	P=0.598N	P=0.014N*	P=0.207N
ORDER RESTRICTED	P=0.040N*	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

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First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM
Mammary Gland Fibroadenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	24/50 (48%)	22/50 (44%)	32/50 (64%)	29/50 (58%)
POLY-3 RATE (b)	24/43.74	22/44.12	32/45.47	29/45.74
POLY-3 PERCENT (g)	54.9%	49.9%	70.4%	63.4%
TERMINAL (d)	11/21 (52%)	15/27 (56%)	22/31 (71%)	19/32 (59%)
FIRST INCIDENCE	501	571	530	619
STATISTICAL TESTS				
LIFE TABLE	P=0.486N	P=0.187N	P=0.546	P=0.388N
POLY 3	P=0.122	P=0.396N	P=0.087	P=0.267
POLY 1.5	P=0.101	P=0.415N	P=0.080	P=0.230
POLY 6	P=0.175	P=0.388N	P=0.103	P=0.339
LOGISTIC REGRESSION	P=0.135	P=0.346N	P=0.112	P=0.280
COCH-ARM / FISHERS	P=0.094	P=0.421N	P=0.079	P=0.212
ORDER RESTRICTED	P=0.110	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM
Mammary Gland Fibroma, Fibroadenoma or Adenoma				
TUMOR RATES	#	#	#	#
OVERALL (a)	24/50 (48%)	23/50 (46%)	32/50 (64%)	29/50 (58%)
POLY-3 RATE (b)	24/43.74	23/44.33	32/45.47	29/45.74
POLY-3 PERCENT (g)	54.9%	51.9%	70.4%	63.4%
TERMINAL (d)	11/21 (52%)	15/27 (56%)	22/31 (71%)	19/32 (59%)
FIRST INCIDENCE	501	571	530	619
STATISTICAL TESTS				
LIFE TABLE	P=0.459N	P=0.239N	P=0.546	P=0.388N
POLY 3	P=0.138	P=0.472N	P=0.087	P=0.267
POLY 1.5	P=0.115	P=0.494N	P=0.080	P=0.230
POLY 6	P=0.193	P=0.457N	P=0.103	P=0.339
LOGISTIC REGRESSION	P=0.151	P=0.427N	P=0.112	P=0.280
COCH-ARM / FISHERS	P=0.106	P=0.500N	P=0.079	P=0.212
ORDER RESTRICTED	P=0.136	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

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

TUMOR RATES

	#	#	#	#
OVERALL (a)	31/50 (62%)	29/50 (58%)	32/50 (64%)	33/50 (66%)
POLY-3 RATE (b)	31/44.35	29/44.44	32/45.47	33/46.83
POLY-3 PERCENT (g)	69.9%	65.3%	70.4%	70.5%
TERMINAL (d)	16/21 (76%)	20/27 (74%)	22/31 (71%)	20/32 (63%)
FIRST INCIDENCE	501	571	530	542

STATISTICAL TESTS

LIFE TABLE	P=0.174N	P=0.132N	P=0.126N	P=0.161N
POLY 3	P=0.444	P=0.400N	P=0.576	P=0.570
POLY 1.5	P=0.364	P=0.421N	P=0.539	P=0.484
POLY 6	P=0.507N	P=0.390N	P=0.573N	P=0.490N
LOGISTIC REGRESSION	P=0.401	P=0.304N	P=0.552N	P=0.507
COCH-ARM / FISHERS	P=0.302	P=0.419N	P=0.500	P=0.418
ORDER RESTRICTED	P=0.590	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM
Nose Adenoma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	5/48 (10%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	0/40.89	5/40.99	4/42.92	3/43.53
POLY-3 PERCENT (g)	0%	12.2%	9.3%	6.9%
TERMINAL (d)	0/21 (0%)	5/27 (19%)	4/31 (13%)	2/32 (6%)
FIRST INCIDENCE	---	730 (T)	730 (T)	638
STATISTICAL TESTS				
LIFE TABLE	P=0.442	P=0.056	P=0.121	P=0.181
POLY 3	P=0.320	P=0.030*	P=0.066	P=0.130
POLY 1.5	P=0.298	P=0.028*	P=0.063	P=0.124
POLY 6	P=0.356	P=0.032*	P=0.070	P=0.140
LOGISTIC REGRESSION	P=0.347	P=0.056	P=0.121	P=0.127
COCH-ARM / FISHERS	P=0.280	P=0.025*	P=0.059	P=0.121
ORDER RESTRICTED	P=0.067	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

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

TUMOR RATES

OVERALL (a)	35/50 (70%)	33/50 (66%)	28/50 (56%)	25/49 (51%)
POLY-3 RATE (b)	35/45.39	33/46.23	28/45.61	25/44.52
POLY-3 PERCENT (g)	77.1%	71.4%	61.4%	56.2%
TERMINAL (d)	17/21 (81%)	17/27 (63%)	19/31 (61%)	17/32 (53%)
FIRST INCIDENCE	501	536	528	542

STATISTICAL TESTS

LIFE TABLE	P<0.001N**	P=0.164N	P=0.009N**	P=0.002N**
POLY 3	P=0.013N*	P=0.342N	P=0.070N	P=0.023N*
POLY 1.5	P=0.016N*	P=0.392N	P=0.083N	P=0.031N*
POLY 6	P=0.009N**	P=0.284N	P=0.058N	P=0.015N*
LOGISTIC REGRESSION	P=0.012N*	P=0.348N	P=0.066N	P=0.023N*
COCH-ARM / FISHERS	P=0.022N*	P=0.415N	P=0.107N	P=0.042N*
ORDER RESTRICTED	P=0.019N*	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

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

TUMOR RATES

OVERALL (a)	36/50 (72%)	34/50 (68%)	28/50 (56%)	26/49 (53%)
POLY-3 RATE (b)	36/45.64	34/46.77	28/45.61	26/44.74
POLY-3 PERCENT (g)	78.9%	72.7%	61.4%	58.1%
TERMINAL (d)	17/21 (81%)	17/27 (63%)	19/31 (61%)	17/32 (53%)
FIRST INCIDENCE	501	536	528	542

STATISTICAL TESTS

LIFE TABLE	P<0.001N**	P=0.166N	P=0.006N**	P=0.002N**
POLY 3	P=0.012N*	P=0.319N	P=0.045N*	P=0.022N*
POLY 1.5	P=0.015N*	P=0.377N	P=0.053N	P=0.030N*
POLY 6	P=0.009N**	P=0.257N	P=0.039N*	P=0.015N*
LOGISTIC REGRESSION	P=0.012N*	P=0.362N	P=0.042N*	P=0.023N*
COCH-ARM / FISHERS	P=0.020N*	P=0.414N	P=0.072N	P=0.041N*
ORDER RESTRICTED	P=0.018N*	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/42.41	0/42.92	0/43.2
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (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. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Skin
 Basal Cell Carcinoma**

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/42.41	1/42.92	0/43.2
POLY-3 PERCENT (g)	0%	0%	2.3%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	1/31 (3%)	0/32 (0%)
FIRST INCIDENCE	---	---	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.743	(e)	P=0.578	(e)
POLY 3	P=0.711	(e)	P=0.510	(e)
POLY 1.5	P=0.702	(e)	P=0.505	(e)
POLY 6	P=0.726	(e)	P=0.517	(e)
LOGISTIC REGRESSION	(e)	(e)	P=0.578	(e)
COCH-ARM / FISHERS	P=0.694	(e)	P=0.500	(e)
ORDER RESTRICTED	P=0.390	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:49:51

First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 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%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/42.41	1/42.92	0/43.2
POLY-3 PERCENT (g)	0%	0%	2.3%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	1/31 (3%)	0/32 (0%)
FIRST INCIDENCE	---	---	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.743	(e)	P=0.578	(e)
POLY 3	P=0.711	(e)	P=0.510	(e)
POLY 1.5	P=0.702	(e)	P=0.505	(e)
POLY 6	P=0.726	(e)	P=0.517	(e)
LOGISTIC REGRESSION	(e)	(e)	P=0.578	(e)
COCH-ARM / FISHERS	P=0.694	(e)	P=0.500	(e)
ORDER RESTRICTED	P=0.390	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:49:51

First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 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%)	0/50 (0%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	0/40.89	0/42.41	4/43.94	2/43.38
POLY-3 PERCENT (g)	0%	0%	9.1%	4.6%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	2/31 (7%)	1/32 (3%)
FIRST INCIDENCE	---	---	516	683

STATISTICAL TESTS

LIFE TABLE	P=0.149	(e)	P=0.097	P=0.310
POLY 3	P=0.114	(e)	P=0.069	P=0.250
POLY 1.5	P=0.107	(e)	P=0.065	P=0.243
POLY 6	P=0.128	(e)	P=0.076	P=0.262
LOGISTIC REGRESSION	P=0.101	(e)	P=0.057	P=0.252
COCH-ARM / FISHERS	P=0.104	(e)	P=0.059	P=0.247
ORDER RESTRICTED	P=0.063	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM
Skin Fibroma				
TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/40.89	2/42.47	0/42.92	1/43.2
POLY-3 PERCENT (g)	0%	4.7%	0%	2.3%
TERMINAL (d)	0/21 (0%)	1/27 (4%)	0/31 (0%)	1/32 (3%)
FIRST INCIDENCE	---	716	---	730 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.616	P=0.276	(e)	P=0.584
POLY 3	P=0.561	P=0.245	(e)	P=0.511
POLY 1.5	P=0.549	P=0.241	(e)	P=0.505
POLY 6	P=0.579	P=0.251	(e)	P=0.520
LOGISTIC REGRESSION	P=0.587	P=0.261	(e)	P=0.584
COCH-ARM / FISHERS	P=0.539	P=0.247	(e)	P=0.500
ORDER RESTRICTED	P=0.332	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/40.97	2/42.47	0/42.92	1/43.2
POLY-3 PERCENT (g)	2.4%	4.7%	0%	2.3%
TERMINAL (d)	0/21 (0%)	1/27 (4%)	0/31 (0%)	1/32 (3%)
FIRST INCIDENCE	710	716	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.422N	P=0.541	P=0.467N	P=0.698N
POLY 3	P=0.488N	P=0.513	P=0.491N	P=0.749N
POLY 1.5	P=0.494N	P=0.505	P=0.495N	P=0.755N
POLY 6	P=0.479N	P=0.521	P=0.484N	P=0.739N
LOGISTIC REGRESSION	P=0.456N	P=0.531	P=0.484N	P=0.730N
COCH-ARM / FISHERS	P=0.500N	P=0.500	P=0.500N	P=0.753N
ORDER RESTRICTED	P=0.369N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM
Skin				
Keratoacanthoma				
TUMOR RATES				
	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/40.89	0/42.41	2/43.56	1/43.2
POLY-3 PERCENT (g)	0%	0%	4.6%	2.3%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	1/31 (3%)	1/32 (3%)
FIRST INCIDENCE	---	---	516	730 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.299	(e)	P=0.290	P=0.584
POLY 3	P=0.262	(e)	P=0.251	P=0.511
POLY 1.5	P=0.253	(e)	P=0.245	P=0.505
POLY 6	P=0.277	(e)	P=0.261	P=0.520
LOGISTIC REGRESSION	P=0.241	(e)	P=0.222	P=0.584
COCH-ARM / FISHERS	P=0.246	(e)	P=0.247	P=0.500
ORDER RESTRICTED	P=0.179	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 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%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/42.41	2/43.29	0/43.2
POLY-3 PERCENT (g)	0%	0%	4.6%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	1/31 (3%)	0/32 (0%)
FIRST INCIDENCE	---	---	624	---

STATISTICAL TESTS

LIFE TABLE	P=0.639	(e)	P=0.288	(e)
POLY 3	P=0.618	(e)	P=0.250	(e)
POLY 1.5	P=0.606	(e)	P=0.244	(e)
POLY 6	P=0.638	(e)	P=0.259	(e)
LOGISTIC REGRESSION	P=0.594	(e)	P=0.236	(e)
COCH-ARM / FISHERS	P=0.595	(e)	P=0.247	(e)
ORDER RESTRICTED	P=0.258	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	0/40.89	0/42.41	3/43.94	2/43.38
POLY-3 PERCENT (g)	0%	0%	6.8%	4.6%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	1/31 (3%)	1/32 (3%)
FIRST INCIDENCE	---	---	516	683

STATISTICAL TESTS

LIFE TABLE	P=0.130	(e)	P=0.154	P=0.310
POLY 3	P=0.106	(e)	P=0.132	P=0.250
POLY 1.5	P=0.101	(e)	P=0.126	P=0.243
POLY 6	P=0.117	(e)	P=0.141	P=0.262
LOGISTIC REGRESSION	P=0.093	(e)	P=0.107	P=0.252
COCH-ARM / FISHERS	P=0.097	(e)	P=0.121	P=0.247
ORDER RESTRICTED	P=0.091	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:49:51

First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Skin
Squamous Cell Papilloma, Papilloma, or Keratoacanthoma

TUMOR RATES

	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	0/40.89	0/42.41	2/43.56	2/43.38
POLY-3 PERCENT (g)	0%	0%	4.6%	4.6%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	1/31 (3%)	1/32 (3%)
FIRST INCIDENCE	---	---	516	683

STATISTICAL TESTS

LIFE TABLE	P=0.118	(e)	P=0.290	P=0.310
POLY 3	P=0.094	(e)	P=0.251	P=0.250
POLY 1.5	P=0.090	(e)	P=0.245	P=0.243
POLY 6	P=0.102	(e)	P=0.261	P=0.262
LOGISTIC REGRESSION	P=0.084	(e)	P=0.222	P=0.252
COCH-ARM / FISHERS	P=0.086	(e)	P=0.247	P=0.247
ORDER RESTRICTED	P=0.127	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Thyroid Gland: C-Cell
 Adenoma**

TUMOR RATES

OVERALL (a)	3/50 (6%)	4/49 (8%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	3/40.95	4/41.91	2/42.92	2/43.2
POLY-3 PERCENT (g)	7.3%	9.5%	4.7%	4.6%
TERMINAL (d)	2/21 (10%)	2/27 (7%)	2/31 (7%)	2/32 (6%)
FIRST INCIDENCE	716	655	730 (T)	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.195N	P=0.592	P=0.346N	P=0.335N
POLY 3	P=0.295N	P=0.513	P=0.479N	P=0.476N
POLY 1.5	P=0.306N	P=0.499	P=0.488N	P=0.489N
POLY 6	P=0.278N	P=0.531	P=0.463N	P=0.455N
LOGISTIC REGRESSION	P=0.261N	P=0.523	P=0.394N	P=0.387N
COCH-ARM / FISHERS	P=0.316N	P=0.489	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.382N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Thyroid Gland: C-Cell
 Carcinoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/49 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/40.89	0/41.47	1/42.92	2/43.2
POLY-3 PERCENT (g)	0%	0%	2.3%	4.6%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	1/31 (3%)	2/32 (6%)
FIRST INCIDENCE	---	---	730 (T)	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.106	(e)	P=0.578	P=0.335
POLY 3	P=0.076	(e)	P=0.510	P=0.249
POLY 1.5	P=0.073	(e)	P=0.505	P=0.243
POLY 6	P=0.080	(e)	P=0.517	P=0.260
LOGISTIC REGRESSION	(e)	(e)	P=0.578	P=0.335
COCH-ARM / FISHERS	P=0.071	(e)	P=0.500	P=0.247
ORDER RESTRICTED	P=0.082	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Thyroid Gland: C-Cell
 Carcinoma or Adenoma**

TUMOR RATES

OVERALL (a)	3/50 (6%)	4/49 (8%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	3/40.95	4/41.91	3/42.92	4/43.2
POLY-3 PERCENT (g)	7.3%	9.5%	7%	9.3%
TERMINAL (d)	2/21 (10%)	2/27 (7%)	3/31 (10%)	4/32 (13%)
FIRST INCIDENCE	716	655	730 (T)	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.503N	P=0.592	P=0.492N	P=0.606N
POLY 3	P=0.495	P=0.513	P=0.641N	P=0.529
POLY 1.5	P=0.481	P=0.499	P=0.651N	P=0.514
POLY 6	P=0.518	P=0.531	P=0.626N	P=0.554
LOGISTIC REGRESSION	P=0.548	P=0.523	P=0.549N	P=0.646
COCH-ARM / FISHERS	P=0.467	P=0.489	P=0.661N	P=0.500
ORDER RESTRICTED	P=0.586	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Thyroid Gland: Follicular Cell
 Adenoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	2/49 (4%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/40.89	2/41.99	0/42.92	2/43.2
POLY-3 PERCENT (g)	0%	4.8%	0%	4.6%
TERMINAL (d)	0/21 (0%)	1/27 (4%)	0/31 (0%)	2/32 (6%)
FIRST INCIDENCE	---	571	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.322	P=0.273	(e)	P=0.335
POLY 3	P=0.265	P=0.243	(e)	P=0.249
POLY 1.5	P=0.257	P=0.237	(e)	P=0.243
POLY 6	P=0.279	P=0.250	(e)	P=0.260
LOGISTIC REGRESSION	P=0.253	P=0.235	(e)	P=0.335
COCH-ARM / FISHERS	P=0.249	P=0.242	(e)	P=0.247
ORDER RESTRICTED	P=0.126	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:49:51

First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Thyroid Gland: Follicular Cell Carcinoma

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/49 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/41.47	1/42.92	0/43.2
POLY-3 PERCENT (g)	0%	0%	2.3%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	1/31 (3%)	0/32 (0%)
FIRST INCIDENCE	---	---	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.743	(e)	P=0.578	(e)
POLY 3	P=0.712	(e)	P=0.510	(e)
POLY 1.5	P=0.703	(e)	P=0.505	(e)
POLY 6	P=0.727	(e)	P=0.517	(e)
LOGISTIC REGRESSION	(e)	(e)	P=0.578	(e)
COCH-ARM / FISHERS	P=0.695	(e)	P=0.500	(e)
ORDER RESTRICTED	P=0.390	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

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

TUMOR RATES

OVERALL (a)	0/50 (0%)	2/49 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/40.89	2/41.99	1/42.92	2/43.2
POLY-3 PERCENT (g)	0%	4.8%	2.3%	4.6%
TERMINAL (d)	0/21 (0%)	1/27 (4%)	1/31 (3%)	2/32 (6%)
FIRST INCIDENCE	---	571	730 (T)	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.334	P=0.273	P=0.578	P=0.335
POLY 3	P=0.267	P=0.243	P=0.510	P=0.249
POLY 1.5	P=0.257	P=0.237	P=0.505	P=0.243
POLY 6	P=0.284	P=0.250	P=0.517	P=0.260
LOGISTIC REGRESSION	P=0.257	P=0.235	P=0.578	P=0.335
COCH-ARM / FISHERS	P=0.248	P=0.242	P=0.500	P=0.247
ORDER RESTRICTED	P=0.165	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Urinary Bladder
 Carcinoma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/41.47	0/42.92	0/43.2
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (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. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Urinary Bladder
 Carcinoma or Papilloma**

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/41.47	0/42.92	0/43.2
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (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. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:49:51

First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Urinary Bladder
Papilloma

TUMOR RATES

OVERALL (a)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/41.47	0/42.92	0/43.2
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (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. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:49:51

First Dose M/F: 06/04/01 / 06/04/01

Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Uterus
Polyp Stromal

TUMOR RATES

	#	#	#	#
OVERALL (a)	13/50 (26%)	9/50 (18%)	8/50 (16%)	7/50 (14%)
POLY-3 RATE (b)	13/41.76	9/42.6	8/43.85	7/43.93
POLY-3 PERCENT (g)	31.1%	21.1%	18.2%	15.9%
TERMINAL (d)	10/21 (48%)	7/27 (26%)	6/31 (19%)	4/32 (13%)
FIRST INCIDENCE	547	696	528	628

STATISTICAL TESTS

LIFE TABLE	P=0.019N*	P=0.088N	P=0.033N*	P=0.020N*
POLY 3	P=0.070N	P=0.210N	P=0.125N	P=0.076N
POLY 1.5	P=0.081N	P=0.225N	P=0.142N	P=0.090N
POLY 6	P=0.055N	P=0.192N	P=0.103N	P=0.058N
LOGISTIC REGRESSION	P=0.064N	P=0.167N	P=0.126N	P=0.072N
COCH-ARM / FISHERS	P=0.093N	P=0.235N	P=0.163N	P=0.105N
ORDER RESTRICTED	P=0.062N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM
Uterus				
Sarcoma Stromal or Polyp Stromal				
TUMOR RATES	#	#	#	#
OVERALL (a)	14/50 (28%)	9/50 (18%)	9/50 (18%)	8/50 (16%)
POLY-3 RATE (b)	14/41.81	9/42.6	9/44.35	8/44.75
POLY-3 PERCENT (g)	33.5%	21.1%	20.3%	17.9%
TERMINAL (d)	10/21 (48%)	7/27 (26%)	6/31 (19%)	4/32 (13%)
FIRST INCIDENCE	547	696	528	411
STATISTICAL TESTS				
LIFE TABLE	P=0.028N*	P=0.059N	P=0.039N*	P=0.025N*
POLY 3	P=0.081N	P=0.148N	P=0.124N	P=0.075N
POLY 1.5	P=0.096N	P=0.161N	P=0.144N	P=0.092N
POLY 6	P=0.062N	P=0.133N	P=0.098N	P=0.054N
LOGISTIC REGRESSION	P=0.098N	P=0.113N	P=0.140N	P=0.098N
COCH-ARM / FISHERS	P=0.116N	P=0.171N	P=0.171N	P=0.114N
ORDER RESTRICTED	P=0.060N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM
Vagina Polyp				
TUMOR RATES	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/41.76	0/42.41	0/42.92	0/43.2
POLY-3 PERCENT (g)	4.8%	0%	0%	0%
TERMINAL (d)	1/21 (5%)	0/27 (0%)	0/31 (0%)	0/32 (0%)
FIRST INCIDENCE	374	---	---	---
STATISTICAL TESTS				
LIFE TABLE	P=0.098N	P=0.214N	P=0.199N	P=0.196N
POLY 3	P=0.115N	P=0.233N	P=0.231N	P=0.229N
POLY 1.5	P=0.113N	P=0.237N	P=0.234N	P=0.235N
POLY 6	P=0.117N	P=0.229N	P=0.224N	P=0.220N
LOGISTIC REGRESSION	P=0.118N	P=0.189N	P=0.247N	P=0.205N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
ORDER RESTRICTED	P=0.027N*	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Zymbal's Gland
 Carcinoma**

TUMOR RATES

	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/41.6	0/42.41	1/42.92	1/43.62
POLY-3 PERCENT (g)	2.4%	0%	2.3%	2.3%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	1/31 (3%)	0/32 (0%)
FIRST INCIDENCE	485	---	730 (T)	607

STATISTICAL TESTS

LIFE TABLE	P=0.575	P=0.500N	P=0.718N	P=0.755N
POLY 3	P=0.551	P=0.496N	P=0.754N	P=0.750N
POLY 1.5	P=0.545	P=0.499N	P=0.757N	P=0.756N
POLY 6	P=0.563	P=0.493N	P=0.748N	P=0.740N
LOGISTIC REGRESSION	P=0.526	P=0.424N	P=0.749	P=0.745N
COCH-ARM / FISHERS	P=0.539	P=0.500N	P=0.753N	P=0.753N
ORDER RESTRICTED	P=0.546	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

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

TUMOR RATES	#	#	#	#
OVERALL (a)	12/50 (24%)	25/50 (50%)	23/50 (46%)	13/50 (26%)
POLY-3 RATE (b)	12/43.05	25/45.05	23/45.86	13/44.83
POLY-3 PERCENT (g)	27.9%	55.5%	50.2%	29%
TERMINAL (d)	3/21 (14%)	14/27 (52%)	12/31 (39%)	7/32 (22%)
FIRST INCIDENCE	492	547	530	542

STATISTICAL TESTS

LIFE TABLE	P=0.122N	P=0.050*	P=0.137	P=0.403N
POLY 3	P=0.277N	P=0.006**	P=0.023*	P=0.548
POLY 1.5	P=0.315N	P=0.005**	P=0.019*	P=0.521
POLY 6	P=0.221N	P=0.007**	P=0.033*	P=0.590
LOGISTIC REGRESSION	P=0.324N	P=0.007**	P=0.020*	P=0.513
COCH-ARM / FISHERS	P=0.355N	P=0.006**	P=0.018*	P=0.500
ORDER RESTRICTED	P=0.069	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 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)	0/40.89	0/42.41	0/42.92	0/43.2
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (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. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 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)	0/40.89	0/42.41	0/42.92	0/43.2
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (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. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
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P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM
All Organs				
Benign Tumors				
TUMOR RATES				
	#	#	#	#
OVERALL (a)	44/50 (88%)	42/50 (84%)	43/50 (86%)	43/50 (86%)
POLY-3 RATE (b)	44/47.19	42/46.76	43/47.93	43/46.83
POLY-3 PERCENT (g)	93.2%	89.8%	89.7%	91.8%
TERMINAL (d)	21/21 (100%)	24/27 (89%)	28/31 (90%)	30/32 (94%)
FIRST INCIDENCE	374	536	516	542
STATISTICAL TESTS				
LIFE TABLE	P=0.026N*	P=0.111N	P=0.038N*	P=0.020N*
POLY 3	P=0.519N	P=0.399N	P=0.390N	P=0.559N
POLY 1.5	P=0.539N	P=0.437N	P=0.452N	P=0.576N
POLY 6	P=0.439N	P=0.345N	P=0.303N	P=0.471N
LOGISTIC REGRESSION	P=0.424N	P=0.269N	P=0.411N	P=0.410N
COCH-ARM / FISHERS	P=0.500N	P=0.387N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.471N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
 CAS Number: 98-82-8
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Date Report Requested: 01/12/2006
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 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM
All Organs				
Malignant Tumors				
TUMOR RATES				
	#	#	#	#
OVERALL (a)	24/50 (48%)	33/50 (66%)	30/50 (60%)	25/50 (50%)
POLY-3 RATE (b)	24/45.32	33/46.58	30/48.29	25/47.44
POLY-3 PERCENT (g)	53%	70.8%	62.1%	52.7%
TERMINAL (d)	7/21 (33%)	19/27 (70%)	15/31 (48%)	13/32 (41%)
FIRST INCIDENCE	485	514	339	267
STATISTICAL TESTS				
LIFE TABLE	P=0.118N	P=0.286	P=0.541	P=0.269N
POLY 3	P=0.304N	P=0.053	P=0.242	P=0.573N
POLY 1.5	P=0.346N	P=0.048*	P=0.204	P=0.555
POLY 6	P=0.255N	P=0.059	P=0.301	P=0.531N
LOGISTIC REGRESSION	P=0.427N	P=0.055	P=0.145	P=0.483
COCH-ARM / FISHERS	P=0.424N	P=0.053	P=0.158	P=0.500
ORDER RESTRICTED	P=0.277N	(e)	(e)	(e)

TDMS No. 96011-05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS
 CUMENE
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Date Report Requested: 01/12/2006
 Time Report Requested: 9:49:51
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 Lab: BNW

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

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**All Organs
 Malignant and Benign Tumors**

TUMOR RATES

	#	#	#	#
OVERALL (a)	50/50 (100%)	48/50 (96%)	48/50 (96%)	47/50 (94%)
POLY-3 RATE (b)	50/50	48/49	48/50	47/49.17
POLY-3 PERCENT (g)	100%	98%	96%	95.6%
TERMINAL (d)	21/21 (100%)	26/27 (96%)	29/31 (94%)	30/32 (94%)
FIRST INCIDENCE	374	514	339	267

STATISTICAL TESTS

LIFE TABLE	P=0.015N*	P=0.119N	P=0.036N*	P=0.015N*
POLY 3	P=0.132N	P=0.496N	P=0.237N	P=0.200N
POLY 1.5	P=0.104N	P=0.495N	P=0.237N	P=0.164N
POLY 6	P=0.152N	P=0.496N	P=0.237N	P=0.227N
LOGISTIC REGRESSION	P=0.093N	P=0.350N	(e)	P=0.118N
COCH-ARM / FISHERS	P=0.108N	P=0.247N	P=0.247N	P=0.121N
ORDER RESTRICTED	P=0.127N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

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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 ***