

**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

<b>C Number:</b>	C96011		
<b>Lock Date:</b>	01/28/2004		
<b>Cage Range:</b>	1 - 9999		
<b>Date Range:</b>	1-JAN-1940 to 17-SEP-2040		
<b>Reasons For Removal:</b>	ALL		
<b>Removal Date Range:</b>	JAN /1 /1940 - SEP /17 /2040		
<b>Treatment Groups:</b>	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 ( $P \leq .05$ ) 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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**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 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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 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
<b>Islets, Pancreatic Adenoma</b>				
<b>TUMOR RATES</b>				
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)
<b>STATISTICAL TESTS</b>				
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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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  
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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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM
<b>Islets, Pancreatic Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
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)
<b>STATISTICAL TESTS</b>				
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
<b>Liver Hepatocellular Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/41.6	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
<b>STATISTICAL TESTS</b>				
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 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 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
<b>Lung</b>				
<b>Alveolar/Bronchiolar Adenoma</b>				
<b>TUMOR RATES</b>				
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)
<b>STATISTICAL TESTS</b>				
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 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

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 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

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
<b>Mammary Gland Fibroadenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
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)
<b>STATISTICAL TESTS</b>				
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 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
<b>Nose Adenoma</b>				
<b>TUMOR RATES</b>				
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
<b>STATISTICAL TESTS</b>				
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 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 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  
 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 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 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 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
<b>Skin Fibroma</b>				
<b>TUMOR RATES</b>	#	#	#	#
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
<b>STATISTICAL TESTS</b>				
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  
 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 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  
 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 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
<b>Testes</b>				
<b>Adenoma</b>				
<b>TUMOR RATES</b>				
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
<b>STATISTICAL TESTS</b>				
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  
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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: 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

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

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 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: 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  
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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**

**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  
 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 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 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

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.

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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

**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  
 CUMENE  
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 Pathologist: PIERCE, J. - RENNE, R.

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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
<b>Urinary Bladder Papilloma</b>				
<b>TUMOR RATES</b>				
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
<b>STATISTICAL TESTS</b>				
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

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
<b>Zymbal's Gland Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
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
<b>STATISTICAL TESTS</b>				
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  
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 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

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

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

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 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

**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 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

**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 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  
 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
<b>Islets, Pancreatic Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
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)
<b>STATISTICAL TESTS</b>				
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 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  
 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 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 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
<b>Mammary Gland Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
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
<b>STATISTICAL TESTS</b>				
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
<b>Mammary Gland Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
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
<b>STATISTICAL TESTS</b>				
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 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  
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
<b>Nose Adenoma</b>				
<b>TUMOR RATES</b>				
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
<b>STATISTICAL TESTS</b>				
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 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  
 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**

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DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

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

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TUMOR RATES	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	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	---	---	---	---

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**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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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 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, 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
<b>Skin</b>				
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma				
<b>TUMOR RATES</b>	#	#	#	#
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
<b>STATISTICAL TESTS</b>				
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
<b>Skin Fibroma</b>				
<b>TUMOR RATES</b>	#	#	#	#
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)
<b>STATISTICAL TESTS</b>				
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
<b>Skin</b>				
<b>Keratoacanthoma</b>				
<b>TUMOR RATES</b>				
	#	#	#	#
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)
<b>STATISTICAL TESTS</b>				
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 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, 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 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

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 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

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

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  
 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 CUMENE  
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 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006  
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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
<b>All Organs</b>				
<b>Benign Tumors</b>				
<b>TUMOR RATES</b>				
	#	#	#	#
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
<b>STATISTICAL TESTS</b>				
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  
 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	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM
<b>All Organs</b>				
<b>Malignant Tumors</b>				
<b>TUMOR RATES</b>				
	#	#	#	#
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
<b>STATISTICAL TESTS</b>				
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  
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 Species/Strain: RATS/F 344

P8: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 CUMENE  
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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  
 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.

Date Report Requested: 01/12/2006

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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 \*\*\*