

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
CUMENE
CAS Number: 98-82-8
Pathologist: PIERCE, J. - RENNE, R.
F 1 R2

Date Report Reqsted: 01/12/2006
Time Report Reqsted: 9:51:30
First Dose M/F: 06/04/01 / 06/04/01
Lab: BNW

C Number:	C96011		
Lock Date:	01/28/2004		
Cage Range:	1 - 9999		
Date Range:	1-JAN-1940 to 17-SEP-2040		
Reasons For Removal:	ALL		
Removal Date Range:	JAN /1 /1940 - SEP /17 /2040		
Treatment Groups:	Include 1 CONTROL	Include 2 CONTROL	Include 3 250 PPM
	Include 4 250 PPM	Include 5 500 PPM	Include 6 500 PPM
	Include 7 1000 PPM	Include 8 1000 PPM	

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

MALE RATS

Organ

Adrenal Cortex
Brain

Eye: Cornea
Kidney: Papilla
Kidney: Pelvis, Transitional Epithelium
Kidney: Renal Tubule
Larynx
Lung
Lung: Alveolus
Lung: Artery
Nose
Nose: Glands, Respiratory Epithelium
Nose: Goblet Cell
Nose: Olfactory Epithelium
Nose: Respiratory Epithelium
Pancreas: Acinus
Prostate

Morphology

Hyperplasia
Compression
Hemorrhage
Inflammation
Mineralization
Hyperplasia
Hyperplasia
Foreign Body
Hemorrhage
Infiltration Cellular Histiocyte
Mineralization
Inflammation Chronic
Hyperplasia
Hyperplasia
Hyperplasia Basal Cell
Hyperplasia
Hyperplasia
Inflammation

FEMALE RATS

Organ

Adrenal Cortex
Brain
Clitoral Gland
Kidney
Liver

Lung: Alveolar Epithelium
Lung: Alveolus

Morphology

Vacuolization Cytoplasmic
Compression
Inflammation Chronic
Nephropathy
Basophilic Focus
Clear Cell Focus
Necrosis
Vacuolization Cytoplasmic
Hyperplasia
Infiltration Cellular Histiocyte

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Lymph Node, Bronchial
Lymph Node, Mediastinal
Lymph Node, Mesenteric
Nose: Olfactory Epithelium
Nose: Respiratory Epithelium
Pituitary Gland
Spleen

Proteinosis
Ectasia
Hyperplasia Lymphoid
Hemorrhage
Hyperplasia Basal Cell
Hyperplasia
Cyst
Necrosis

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Adrenal Cortex
 Hyperplasia**

LESION RATES

OVERALL (a)	17/50 (34%)	16/50 (32%)	10/50 (20%)	10/50 (20%)
POLY-3 RATE (b)	17/43.21	16/40.82	10/42.02	10/42.99
POLY-3 PERCENT (g)	39.3%	39.2%	23.8%	23.3%
TERMINAL (d)	11/26 (42%)	12/23 (52%)	7/27 (26%)	6/24 (25%)
FIRST INCIDENCE	599	541	569	677

STATISTICAL TESTS

LIFE TABLE	P=0.051N	P=0.488	P=0.090N	P=0.130N
POLY 3	P=0.033N*	P=0.585N	P=0.091N	P=0.080N
POLY 1.5	P=0.036N*	P=0.539N	P=0.089N	P=0.080N
POLY 6	P=0.032N*	P=0.523	P=0.096N	P=0.084N
LOGISTIC REGRESSION	P=0.031N*	P=0.556	P=0.092N	P=0.076N
COCH-ARM / FISHERS	P=0.044N*	P=0.500N	P=0.088N	P=0.088N
ORDER RESTRICTED	P=0.072N	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Adrenal Cortex
Necrosis

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.60	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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Adrenal Cortex
 Vacuolization Cytoplasmic**

LESION RATES

OVERALL (a)	8/50 (16%)	5/50 (10%)	7/50 (14%)	4/50 (8%)
POLY-3 RATE (b)	8/42.63	5/40.48	7/42.27	4/42.93
POLY-3 PERCENT (g)	18.8%	12.4%	16.6%	9.3%
TERMINAL (d)	5/26 (19%)	1/23 (4%)	3/27 (11%)	1/24 (4%)
FIRST INCIDENCE	562	613	554	642

STATISTICAL TESTS

LIFE TABLE	P=0.190N	P=0.360N	P=0.490N	P=0.202N
POLY 3	P=0.171N	P=0.307N	P=0.507N	P=0.170N
POLY 1.5	P=0.177N	P=0.291N	P=0.506N	P=0.172N
POLY 6	P=0.166N	P=0.331N	P=0.509N	P=0.172N
LOGISTIC REGRESSION	P=0.183N	P=0.291N	P=0.505N	P=0.172N
COCH-ARM / FISHERS	P=0.189N	P=0.277N	P=0.500N	P=0.178N
ORDER RESTRICTED	P=0.159N	(e)	(e)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Adrenal Medulla
Hyperplasia

LESION RATES

OVERALL (a)	11/50 (22%)	13/50 (26%)	18/50 (36%)	13/50 (26%)
POLY-3 RATE (b)	11/43.58	13/41.38	18/42.44	13/42.87
POLY-3 PERCENT (g)	25.2%	31.4%	42.4%	30.3%
TERMINAL (d)	5/26 (19%)	7/23 (30%)	12/27 (44%)	9/24 (38%)
FIRST INCIDENCE	558	565	625	677

STATISTICAL TESTS

LIFE TABLE	P=0.354	P=0.306	P=0.117	P=0.365
POLY 3	P=0.331	P=0.347	P=0.068	P=0.386
POLY 1.5	P=0.342	P=0.377	P=0.076	P=0.401
POLY 6	P=0.304	P=0.304	P=0.059	P=0.357
LOGISTIC REGRESSION	P=0.388	P=0.385	P=0.084	P=0.424
COCH-ARM / FISHERS	P=0.344	P=0.408	P=0.093	P=0.408
ORDER RESTRICTED	P=0.201	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Brain
 Compression**

LESION RATES

OVERALL (a)	7/50 (14%)	16/50 (32%)	6/50 (12%)	6/50 (12%)
POLY-3 RATE (b)	7/45.28	16/43.88	6/42.00	6/44.26
POLY-3 PERCENT (g)	15.5%	36.5%	14.3%	13.6%
TERMINAL (d)	0/26 (0%)	5/23 (22%)	2/27 (7%)	1/24 (4%)
FIRST INCIDENCE	296	480	645	453

STATISTICAL TESTS

LIFE TABLE	P=0.155N	P=0.029*	P=0.506N	P=0.479N
POLY 3	P=0.159N	P=0.019*	P=0.558N	P=0.518N
POLY 1.5	P=0.153N	P=0.022*	P=0.538N	P=0.509N
POLY 6	P=0.171N	P=0.015*	P=0.581N	P=0.533N
LOGISTIC REGRESSION	P=0.192N	P=0.037*	P=0.468N	P=0.629
COCH-ARM / FISHERS	P=0.150N	P=0.028*	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.101N	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Brain
Hemorrhage

LESION RATES

OVERALL (a)	5/50 (10%)	7/50 (14%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	5/44.11	7/42.33	3/42.19	1/42.35
POLY-3 PERCENT (g)	11.3%	16.5%	7.1%	2.4%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	1/27 (4%)	0/24 (0%)
FIRST INCIDENCE	296	528	495	726

STATISTICAL TESTS

LIFE TABLE	P=0.040N*	P=0.350	P=0.351N	P=0.100N
POLY 3	P=0.042N*	P=0.349	P=0.381N	P=0.110N
POLY 1.5	P=0.040N*	P=0.363	P=0.372N	P=0.106N
POLY 6	P=0.047N*	P=0.329	P=0.394N	P=0.118N
LOGISTIC REGRESSION	P=0.051N	P=0.437	P=0.308N	P=0.148N
COCH-ARM / FISHERS	P=0.039N*	P=0.380	P=0.357N	P=0.102N
ORDER RESTRICTED	P=0.043N*	(e)	(e)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Eye: Cornea
Inflammation

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/42.84	0/39.38	0/40.50	0/42.33
POLY-3 PERCENT (g)	4.7%	0%	0%	0%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	495	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.117N	P=0.247N	P=0.247N	P=0.240N
POLY 3	P=0.108N	P=0.256N	P=0.249N	P=0.239N
POLY 1.5	P=0.111N	P=0.247N	P=0.247N	P=0.238N
POLY 6	P=0.104N	P=0.270N	P=0.254N	P=0.244N
LOGISTIC REGRESSION	P=0.118N	P=0.267N	P=0.200N	P=0.340N
COCH-ARM / FISHERS	P=0.116N	P=0.247N	P=0.253N	P=0.247N
ORDER RESTRICTED	P=0.030N*	(e)	(e)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Eye: Lens
Cataract

LESION RATES

OVERALL (a)	6/50 (12%)	2/50 (4%)	2/49 (4%)	5/50 (10%)
POLY-3 RATE (b)	6/42.49	2/39.38	2/40.50	5/42.37
POLY-3 PERCENT (g)	14.1%	5.1%	4.9%	11.8%
TERMINAL (d)	3/26 (12%)	2/23 (9%)	2/27 (7%)	4/24 (17%)
FIRST INCIDENCE	571	729 (T)	729 (T)	720

STATISTICAL TESTS

LIFE TABLE	P=0.562N	P=0.183N	P=0.137N	P=0.532N
POLY 3	P=0.538N	P=0.157N	P=0.147N	P=0.502N
POLY 1.5	P=0.545N	P=0.144N	P=0.144N	P=0.497N
POLY 6	P=0.533N	P=0.178N	P=0.152N	P=0.516N
LOGISTIC REGRESSION	P=0.529N	P=0.154N	P=0.142N	P=0.490N
COCH-ARM / FISHERS	P=0.555N	P=0.134N	P=0.141N	P=0.500N
ORDER RESTRICTED	P=0.212N	(e)	(e)	(e)

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Species/Strain: RATS/F 344

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Eye: Retina
Atrophy

LESION RATES

OVERALL (a)	4/50 (8%)	1/50 (2%)	1/49 (2%)	2/50 (4%)
POLY-3 RATE (b)	4/42.49	1/39.38	1/40.50	2/42.37
POLY-3 PERCENT (g)	9.4%	2.5%	2.5%	4.7%
TERMINAL (d)	1/26 (4%)	1/23 (4%)	1/27 (4%)	1/24 (4%)
FIRST INCIDENCE	571	729 (T)	729 (T)	720

STATISTICAL TESTS

LIFE TABLE	P=0.313N	P=0.226N	P=0.189N	P=0.350N
POLY 3	P=0.301N	P=0.201N	P=0.192N	P=0.338N
POLY 1.5	P=0.307N	P=0.190N	P=0.190N	P=0.335N
POLY 6	P=0.295N	P=0.221N	P=0.198N	P=0.346N
LOGISTIC REGRESSION	P=0.303N	P=0.183N	P=0.186N	P=0.334N
COCH-ARM / FISHERS	P=0.314N	P=0.181N	P=0.187N	P=0.339N
ORDER RESTRICTED	P=0.140N	(e)	(e)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Heart
Cardiomyopathy

LESION RATES

OVERALL (a)	9/50 (18%)	7/50 (14%)	12/50 (24%)	11/50 (22%)
POLY-3 RATE (b)	9/43.84	7/40.60	12/43.42	11/43.10
POLY-3 PERCENT (g)	20.5%	17.2%	27.6%	25.5%
TERMINAL (d)	4/26 (15%)	4/23 (17%)	6/27 (22%)	8/24 (33%)
FIRST INCIDENCE	558	575	495	584

STATISTICAL TESTS

LIFE TABLE	P=0.264	P=0.479N	P=0.339	P=0.371
POLY 3	P=0.247	P=0.457N	P=0.299	P=0.382
POLY 1.5	P=0.249	P=0.425N	P=0.303	P=0.396
POLY 6	P=0.235	P=0.506N	P=0.291	P=0.355
LOGISTIC REGRESSION	P=0.251	P=0.386N	P=0.318	P=0.407
COCH-ARM / FISHERS	P=0.244	P=0.393N	P=0.312	P=0.402
ORDER RESTRICTED	P=0.307	(e)	(e)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Heart: Atrium
Thrombosis

LESION RATES

OVERALL (a)	3/50 (6%)	6/50 (12%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	3/42.12	6/40.45	4/42.03	4/43.36
POLY-3 PERCENT (g)	7.1%	14.8%	9.5%	9.2%
TERMINAL (d)	0/26 (0%)	3/23 (13%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	613	575	626	541

STATISTICAL TESTS

LIFE TABLE	P=0.556N	P=0.199	P=0.499	P=0.503
POLY 3	P=0.562N	P=0.220	P=0.499	P=0.516
POLY 1.5	P=0.569N	P=0.232	P=0.498	P=0.512
POLY 6	P=0.557N	P=0.203	P=0.501	P=0.517
LOGISTIC REGRESSION	P=0.545	P=0.233	P=0.502	P=0.486
COCH-ARM / FISHERS	P=0.551	P=0.243	P=0.500	P=0.500
ORDER RESTRICTED	P=0.425	(e)	(e)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Kidney
Infarct

LESION RATES

OVERALL (a)	0/50 (0%)	3/50 (6%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/41.60	3/39.94	2/41.48	1/42.92
POLY-3 PERCENT (g)	0%	7.5%	4.8%	2.3%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	---	643	626	541

STATISTICAL TESTS

LIFE TABLE	P=0.571	P=0.107	P=0.237	P=0.504
POLY 3	P=0.574	P=0.111	P=0.236	P=0.506
POLY 1.5	P=0.569	P=0.115	P=0.236	P=0.504
POLY 6	P=0.576	P=0.105	P=0.236	P=0.507
LOGISTIC REGRESSION	P=0.541	P=0.117	P=0.239	P=0.399
COCH-ARM / FISHERS	P=0.556	P=0.121	P=0.247	P=0.500
ORDER RESTRICTED	P=0.178	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Kidney
Nephropathy

LESION RATES

OVERALL (a)	47/50 (94%)	47/50 (94%)	47/50 (94%)	50/50 (100%)
POLY-3 RATE (b)	47/48.65	47/48.61	47/48.28	50/50.00
POLY-3 PERCENT (g)	96.6%	96.7%	97.4%	100%
TERMINAL (d)	26/26 (100%)	23/23 (100%)	26/27 (96%)	24/24 (100%)
FIRST INCIDENCE	467	445	495	453

STATISTICAL TESTS

LIFE TABLE	P=0.368	P=0.252	P=0.533N	P=0.303
POLY 3	P=0.143	P=0.743	P=0.662	P=0.277
POLY 1.5	P=0.110	P=0.681N	P=0.648	P=0.205
POLY 6	P=0.217	P=0.706	P=0.710	P=0.371
LOGISTIC REGRESSION	P=0.125	P=0.673N	P=0.640	P=0.179
COCH-ARM / FISHERS	P=0.092	P=0.661N	P=0.661N	P=0.121
ORDER RESTRICTED	P=0.147	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Kidney: Papilla
 Mineralization**

LESION RATES

OVERALL (a)	5/50 (10%)	35/50 (70%)	44/50 (88%)	41/50 (82%)
POLY-3 RATE (b)	5/42.70	35/48.13	44/47.30	41/48.42
POLY-3 PERCENT (g)	11.7%	72.7%	93%	84.7%
TERMINAL (d)	2/26 (8%)	14/23 (61%)	26/27 (96%)	20/24 (83%)
FIRST INCIDENCE	495	480	460	453

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Kidney: Pelvis, Transitional Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	3/50 (6%)	5/50 (10%)	14/50 (28%)	15/50 (30%)
POLY-3 RATE (b)	3/42.19	5/40.31	14/41.89	15/43.63
POLY-3 PERCENT (g)	7.1%	12.4%	33.4%	34.4%
TERMINAL (d)	1/26 (4%)	3/23 (13%)	11/27 (41%)	8/24 (33%)
FIRST INCIDENCE	558	565	626	628

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P=0.308	P=0.005**	P=0.003**
POLY 3	P<0.001**	P=0.330	P=0.002**	P<0.001**
POLY 1.5	P<0.001**	P=0.344	P=0.002**	P<0.001**
POLY 6	P<0.001**	P=0.309	P=0.002**	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P=0.354	P=0.003**	P=0.002**
COCH-ARM / FISHERS	P<0.001**	P=0.357	P=0.003**	P=0.002**
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Kidney: Pelvis, Transitional Epithelium
Mineralization

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.60	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)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Kidney: Renal Tubule
Cyst

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	0/41.60	1/39.38	4/41.35	2/42.43
POLY-3 PERCENT (g)	0%	2.5%	9.7%	4.7%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	3/27 (11%)	1/24 (4%)
FIRST INCIDENCE	---	729 (T)	625	705

STATISTICAL TESTS

LIFE TABLE	P=0.165	P=0.476	P=0.071	P=0.227
POLY 3	P=0.177	P=0.489	P=0.059	P=0.241
POLY 1.5	P=0.173	P=0.495	P=0.059	P=0.241
POLY 6	P=0.180	P=0.480	P=0.058	P=0.240
LOGISTIC REGRESSION	P=0.178	P=0.476	P=0.060	P=0.236
COCH-ARM / FISHERS	P=0.165	P=0.500	P=0.059	P=0.247
ORDER RESTRICTED	P=0.073	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Kidney: Renal Tubule
Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	3/50 (6%)	8/50 (16%)	6/50 (12%)
POLY-3 RATE (b)	0/41.60	3/40.12	8/42.05	6/43.06
POLY-3 PERCENT (g)	0%	7.5%	19%	13.9%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	6/27 (22%)	4/24 (17%)
FIRST INCIDENCE	---	618	460	618

STATISTICAL TESTS

LIFE TABLE	P=0.020*	P=0.111	P=0.006**	P=0.018*
POLY 3	P=0.020*	P=0.112	P=0.004**	P=0.017*
POLY 1.5	P=0.019*	P=0.115	P=0.004**	P=0.016*
POLY 6	P=0.021*	P=0.106	P=0.003**	P=0.017*
LOGISTIC REGRESSION	P=0.019*	P=0.123	P=0.005**	P=0.018*
COCH-ARM / FISHERS	P=0.018*	P=0.121	P=0.003**	P=0.013*
ORDER RESTRICTED	P=0.006**	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Larynx
Foreign Body

LESION RATES

OVERALL (a)	6/50 (12%)	3/50 (6%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	6/41.89	3/40.00	0/40.98	3/42.64
POLY-3 PERCENT (g)	14.3%	7.5%	0%	7%
TERMINAL (d)	2/26 (8%)	2/23 (9%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	702	528	---	660

STATISTICAL TESTS

LIFE TABLE	P=0.162N	P=0.326N	P=0.023N*	P=0.268N
POLY 3	P=0.147N	P=0.263N	P=0.016N*	P=0.231N
POLY 1.5	P=0.150N	P=0.252N	P=0.016N*	P=0.234N
POLY 6	P=0.142N	P=0.284N	P=0.016N*	P=0.232N
LOGISTIC REGRESSION	P=0.147N	P=0.277N	P=0.019N*	P=0.236N
COCH-ARM / FISHERS	P=0.157N	P=0.243N	P=0.013N*	P=0.243N
ORDER RESTRICTED	P=0.035N*	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Larynx
 Inflammation**

LESION RATES

OVERALL (a)	4/50 (8%)	7/50 (14%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	4/41.83	7/41.10	1/41.35	3/42.38
POLY-3 PERCENT (g)	9.6%	17%	2.4%	7.1%
TERMINAL (d)	1/26 (4%)	3/23 (13%)	0/27 (0%)	2/24 (8%)
FIRST INCIDENCE	702	528	625	717

STATISTICAL TESTS

LIFE TABLE	P=0.225N	P=0.201	P=0.193N	P=0.528N
POLY 3	P=0.212N	P=0.248	P=0.181N	P=0.493N
POLY 1.5	P=0.214N	P=0.256	P=0.181N	P=0.493N
POLY 6	P=0.214N	P=0.234	P=0.183N	P=0.498N
LOGISTIC REGRESSION	P=0.215N	P=0.255	P=0.183N	P=0.503N
COCH-ARM / FISHERS	P=0.220N	P=0.262	P=0.181N	P=0.500N
ORDER RESTRICTED	P=0.130N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Larynx
Inflammation Chronic

LESION RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/41.60	1/39.38	1/40.98	0/42.33
POLY-3 PERCENT (g)	2.4%	2.5%	2.4%	0%
TERMINAL (d)	1/26 (4%)	1/23 (4%)	1/27 (4%)	0/24 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.318N	P=0.735	P=0.754N	P=0.516N
POLY 3	P=0.306N	P=0.749	P=0.758	P=0.497N
POLY 1.5	P=0.308N	P=0.755	P=0.758	P=0.497N
POLY 6	P=0.304N	P=0.739	P=0.756	P=0.497N
LOGISTIC REGRESSION	P=0.318N	P=0.735	P=0.754N	(e)
COCH-ARM / FISHERS	P=0.311N	P=0.753N	P=0.753N	P=0.500N
ORDER RESTRICTED	P=0.314N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Larynx: Epiglottis
Metaplasia

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/42.15	0/39.38	1/40.98	2/42.33
POLY-3 PERCENT (g)	2.4%	0%	2.4%	4.7%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	1/27 (4%)	2/24 (8%)
FIRST INCIDENCE	558	---	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.240	P=0.513N	P=0.757	P=0.479
POLY 3	P=0.258	P=0.514N	P=0.755	P=0.501
POLY 1.5	P=0.255	P=0.507N	P=0.757	P=0.503
POLY 6	P=0.262	P=0.524N	P=0.751	P=0.497
LOGISTIC REGRESSION	P=0.253	P=0.526N	P=0.758N	P=0.496
COCH-ARM / FISHERS	P=0.247	P=0.500N	P=0.753N	P=0.500
ORDER RESTRICTED	P=0.231	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Larynx: Respiratory Epithelium
 Hyperplasia**

LESION RATES

OVERALL (a)	3/50 (6%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/42.15	2/39.70	0/40.98	1/42.33
POLY-3 PERCENT (g)	7.1%	5%	0%	2.4%
TERMINAL (d)	2/26 (8%)	1/23 (4%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	558	643	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.167N	P=0.547N	P=0.122N	P=0.329N
POLY 3	P=0.160N	P=0.527N	P=0.123N	P=0.303N
POLY 1.5	P=0.161N	P=0.514N	P=0.122N	P=0.302N
POLY 6	P=0.159N	P=0.548N	P=0.126N	P=0.307N
LOGISTIC REGRESSION	P=0.160N	P=0.506N	P=0.120N	P=0.302N
COCH-ARM / FISHERS	P=0.163N	P=0.500N	P=0.121N	P=0.309N
ORDER RESTRICTED	P=0.107N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)

TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
Angiectasis

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.60	1/39.38	0/40.98	0/42.33
POLY-3 PERCENT (g)	0%	2.5%	0%	0%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	---	729 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.573N	P=0.476	(e)	(e)
POLY 3	P=0.573N	P=0.489	(e)	(e)
POLY 1.5	P=0.570N	P=0.495	(e)	(e)
POLY 6	P=0.579N	P=0.480	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.476	(e)	(e)
COCH-ARM / FISHERS	P=0.567N	P=0.500	(e)	(e)
ORDER RESTRICTED	P=0.367N	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
 Basophilic Focus

LESION RATES

OVERALL (a)	7/50 (14%)	4/50 (8%)	8/50 (16%)	6/50 (12%)
POLY-3 RATE (b)	7/42.83	4/39.38	8/41.20	6/42.69
POLY-3 PERCENT (g)	16.3%	10.2%	19.4%	14.1%
TERMINAL (d)	4/26 (15%)	4/23 (17%)	7/27 (26%)	4/24 (17%)
FIRST INCIDENCE	571	729 (T)	670	642

STATISTICAL TESTS

LIFE TABLE	P=0.538	P=0.327N	P=0.526	P=0.519N
POLY 3	P=0.549N	P=0.309N	P=0.467	P=0.503N
POLY 1.5	P=0.556N	P=0.285N	P=0.481	P=0.497N
POLY 6	P=0.547N	P=0.350N	P=0.445	P=0.517N
LOGISTIC REGRESSION	P=0.538N	P=0.298N	P=0.485	P=0.489N
COCH-ARM / FISHERS	P=0.543	P=0.262N	P=0.500	P=0.500N
ORDER RESTRICTED	P=0.521	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
Clear Cell Focus

LESION RATES

OVERALL (a)	12/50 (24%)	6/50 (12%)	11/50 (22%)	11/50 (22%)
POLY-3 RATE (b)	12/41.60	6/39.38	11/40.98	11/42.53
POLY-3 PERCENT (g)	28.9%	15.2%	26.8%	25.9%
TERMINAL (d)	12/26 (46%)	6/23 (26%)	11/27 (41%)	10/24 (42%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	677

STATISTICAL TESTS

LIFE TABLE	P=0.406	P=0.126N	P=0.453N	P=0.594N
POLY 3	P=0.501	P=0.110N	P=0.517N	P=0.475N
POLY 1.5	P=0.482	P=0.101N	P=0.511N	P=0.481N
POLY 6	P=0.522	P=0.127N	P=0.528N	P=0.474N
LOGISTIC REGRESSION	P=0.465	P=0.126N	P=0.453N	P=0.545N
COCH-ARM / FISHERS	P=0.452	P=0.096N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.401N	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
 Degeneration Cystic

LESION RATES

OVERALL (a)	3/50 (6%)	1/50 (2%)	4/50 (8%)	6/50 (12%)
POLY-3 RATE (b)	3/41.67	1/39.38	4/41.14	6/43.20
POLY-3 PERCENT (g)	7.2%	2.5%	9.7%	13.9%
TERMINAL (d)	2/26 (8%)	1/23 (4%)	3/27 (11%)	3/24 (13%)
FIRST INCIDENCE	712	729 (T)	688	635

STATISTICAL TESTS

LIFE TABLE	P=0.083	P=0.360N	P=0.499	P=0.237
POLY 3	P=0.092	P=0.325N	P=0.493	P=0.258
POLY 1.5	P=0.087	P=0.315N	P=0.495	P=0.254
POLY 6	P=0.100	P=0.342N	P=0.489	P=0.263
LOGISTIC REGRESSION	P=0.091	P=0.368N	P=0.477	P=0.249
COCH-ARM / FISHERS	P=0.080	P=0.309N	P=0.500	P=0.243
ORDER RESTRICTED	P=0.100	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
 Eosinophilic Focus

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	4/50 (8%)	0/50 (0%)
POLY-3 RATE (b)	0/41.60	1/39.38	4/40.98	0/42.33
POLY-3 PERCENT (g)	0%	2.5%	9.8%	0%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	4/27 (15%)	0/24 (0%)
FIRST INCIDENCE	---	729 (T)	729 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.580	P=0.476	P=0.066	(e)
POLY 3	P=0.614	P=0.489	P=0.058	(e)
POLY 1.5	P=0.608	P=0.495	P=0.059	(e)
POLY 6	P=0.616	P=0.480	P=0.056	(e)
LOGISTIC REGRESSION	(e)	P=0.476	P=0.066	(e)
COCH-ARM / FISHERS	P=0.591	P=0.500	P=0.059	(e)
ORDER RESTRICTED	P=0.146	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
Hepatodiaphragmatic Nodule

LESION RATES

OVERALL (a)	3/50 (6%)	8/50 (16%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	3/42.88	8/40.00	2/41.08	3/43.31
POLY-3 PERCENT (g)	7%	20%	4.9%	6.9%
TERMINAL (d)	0/26 (0%)	6/23 (26%)	1/27 (4%)	0/24 (0%)
FIRST INCIDENCE	495	618	702	618

STATISTICAL TESTS

LIFE TABLE	P=0.294N	P=0.075	P=0.519N	P=0.641N
POLY 3	P=0.293N	P=0.075	P=0.520N	P=0.658N
POLY 1.5	P=0.293N	P=0.086	P=0.512N	P=0.658N
POLY 6	P=0.296N	P=0.062	P=0.530N	P=0.660N
LOGISTIC REGRESSION	P=0.298N	P=0.096	P=0.489N	P=0.596
COCH-ARM / FISHERS	P=0.299N	P=0.100	P=0.500N	P=0.661N
ORDER RESTRICTED	P=0.181N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
Mixed Cell Focus

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	1/41.60	0/39.38	3/40.98	1/42.33
POLY-3 PERCENT (g)	2.4%	0%	7.3%	2.4%
TERMINAL (d)	1/26 (4%)	0/23 (0%)	3/27 (11%)	1/24 (4%)
FIRST INCIDENCE	729 (T)	---	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.457	P=0.524N	P=0.317	P=0.745
POLY 3	P=0.492	P=0.511N	P=0.299	P=0.757N
POLY 1.5	P=0.484	P=0.505N	P=0.301	P=0.757N
POLY 6	P=0.499	P=0.520N	P=0.295	P=0.759N
LOGISTIC REGRESSION	P=0.457	(e)	P=0.317	P=0.745
COCH-ARM / FISHERS	P=0.469	P=0.500N	P=0.309	P=0.753N
ORDER RESTRICTED	P=0.266	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
 Necrosis

LESION RATES

OVERALL (a)	3/50 (6%)	3/50 (6%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	3/42.49	3/40.30	3/41.82	3/42.91
POLY-3 PERCENT (g)	7.1%	7.4%	7.2%	7%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	599	575	626	635

STATISTICAL TESTS

LIFE TABLE	P=0.540N	P=0.617	P=0.652N	P=0.645N
POLY 3	P=0.567N	P=0.638	P=0.656	P=0.658N
POLY 1.5	P=0.571N	P=0.651	P=0.657	P=0.658N
POLY 6	P=0.566N	P=0.618	P=0.653	P=0.663N
LOGISTIC REGRESSION	P=0.561	P=0.652N	P=0.655N	P=0.648
COCH-ARM / FISHERS	P=0.580	P=0.661N	P=0.661N	P=0.661N
ORDER RESTRICTED	P=0.727N	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
 Vacuolization Cytoplasmic

LESION RATES

OVERALL (a)	6/50 (12%)	2/50 (4%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	6/44.43	2/40.05	3/41.73	2/42.92
POLY-3 PERCENT (g)	13.5%	5%	7.2%	4.7%
TERMINAL (d)	1/26 (4%)	0/23 (0%)	2/27 (7%)	1/24 (4%)
FIRST INCIDENCE	467	632	460	541

STATISTICAL TESTS

LIFE TABLE	P=0.134N	P=0.164N	P=0.249N	P=0.145N
POLY 3	P=0.126N	P=0.168N	P=0.273N	P=0.143N
POLY 1.5	P=0.128N	P=0.151N	P=0.260N	P=0.138N
POLY 6	P=0.127N	P=0.192N	P=0.292N	P=0.153N
LOGISTIC REGRESSION	P=0.159N	P=0.114N	P=0.208N	P=0.188N
COCH-ARM / FISHERS	P=0.132N	P=0.134N	P=0.243N	P=0.134N
ORDER RESTRICTED	P=0.086N	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver: Bile Duct
 Hyperplasia

LESION RATES

OVERALL (a)	7/50 (14%)	4/50 (8%)	12/50 (24%)	7/50 (14%)
POLY-3 RATE (b)	7/42.35	4/39.63	12/42.59	7/42.76
POLY-3 PERCENT (g)	16.5%	10.1%	28.2%	16.4%
TERMINAL (d)	4/26 (15%)	3/23 (13%)	5/27 (19%)	4/24 (17%)
FIRST INCIDENCE	622	665	625	635

STATISTICAL TESTS

LIFE TABLE	P=0.384	P=0.340N	P=0.173	P=0.587
POLY 3	P=0.403	P=0.298N	P=0.150	P=0.607N
POLY 1.5	P=0.391	P=0.279N	P=0.150	P=0.606N
POLY 6	P=0.410	P=0.330N	P=0.153	P=0.615
LOGISTIC REGRESSION	P=0.402	P=0.314N	P=0.145	P=0.604N
COCH-ARM / FISHERS	P=0.369	P=0.262N	P=0.154	P=0.613N
ORDER RESTRICTED	P=0.217	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver: Periportal
Inflammation Chronic

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/41.60	0/39.38	2/41.27	0/42.33
POLY-3 PERCENT (g)	0%	0%	4.9%	0%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	1/27 (4%)	0/24 (0%)
FIRST INCIDENCE	---	---	648	---

STATISTICAL TESTS

LIFE TABLE	P=0.602	(e)	P=0.244	(e)
POLY 3	P=0.614	(e)	P=0.235	(e)
POLY 1.5	P=0.608	(e)	P=0.236	(e)
POLY 6	P=0.617	(e)	P=0.234	(e)
LOGISTIC REGRESSION	P=0.599	(e)	P=0.235	(e)
COCH-ARM / FISHERS	P=0.595	(e)	P=0.247	(e)
ORDER RESTRICTED	P=0.245	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung
Hemorrhage

LESION RATES

OVERALL (a)	3/50 (6%)	7/50 (14%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	3/42.91	7/41.31	3/42.40	0/42.33
POLY-3 PERCENT (g)	7%	17%	7.1%	0%
TERMINAL (d)	0/26 (0%)	2/23 (9%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	558	565	495	---

STATISTICAL TESTS

LIFE TABLE	P=0.044N*	P=0.143	P=0.643N	P=0.115N
POLY 3	P=0.044N*	P=0.140	P=0.657	P=0.121N
POLY 1.5	P=0.042N*	P=0.149	P=0.659	P=0.119N
POLY 6	P=0.047N*	P=0.127	P=0.654	P=0.125N
LOGISTIC REGRESSION	P=0.052N	P=0.169	P=0.637N	P=0.149N
COCH-ARM / FISHERS	P=0.045N*	P=0.159	P=0.661N	P=0.121N
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung
Inflammation Chronic

LESION RATES

OVERALL (a)	3/50 (6%)	3/50 (6%)	6/50 (12%)	5/50 (10%)
POLY-3 RATE (b)	3/41.71	3/39.99	6/41.64	5/42.82
POLY-3 PERCENT (g)	7.2%	7.5%	14.4%	11.7%
TERMINAL (d)	2/26 (8%)	2/23 (9%)	4/27 (15%)	4/24 (17%)
FIRST INCIDENCE	702	536	625	584

STATISTICAL TESTS

LIFE TABLE	P=0.232	P=0.603	P=0.256	P=0.323
POLY 3	P=0.256	P=0.644	P=0.239	P=0.370
POLY 1.5	P=0.248	P=0.654	P=0.240	P=0.367
POLY 6	P=0.262	P=0.626	P=0.238	P=0.369
LOGISTIC REGRESSION	P=0.251	P=0.640	P=0.230	P=0.362
COCH-ARM / FISHERS	P=0.233	P=0.661N	P=0.243	P=0.357
ORDER RESTRICTED	P=0.295	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Lung: Alveolar Epithelium
 Hyperplasia**

LESION RATES

OVERALL (a)	13/50 (26%)	11/50 (22%)	10/50 (20%)	10/50 (20%)
POLY-3 RATE (b)	13/43.74	11/41.31	10/41.51	10/43.05
POLY-3 PERCENT (g)	29.7%	26.6%	24.1%	23.2%
TERMINAL (d)	7/26 (27%)	4/23 (17%)	8/27 (30%)	5/24 (21%)
FIRST INCIDENCE	296	589	645	674

STATISTICAL TESTS

LIFE TABLE	P=0.293N	P=0.547N	P=0.315N	P=0.371N
POLY 3	P=0.278N	P=0.470N	P=0.366N	P=0.328N
POLY 1.5	P=0.280N	P=0.444N	P=0.350N	P=0.323N
POLY 6	P=0.280N	P=0.499N	P=0.387N	P=0.338N
LOGISTIC REGRESSION	P=0.256N	P=0.415N	P=0.326N	P=0.309N
COCH-ARM / FISHERS	P=0.282N	P=0.408N	P=0.318N	P=0.318N
ORDER RESTRICTED	P=0.383N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung: Alveolus
Infiltration Cellular Histiocyte

LESION RATES

OVERALL (a)	9/50 (18%)	7/50 (14%)	4/50 (8%)	14/50 (28%)
POLY-3 RATE (b)	9/44.18	7/41.80	4/40.98	14/45.13
POLY-3 PERCENT (g)	20.4%	16.8%	9.8%	31%
TERMINAL (d)	5/26 (19%)	3/23 (13%)	4/27 (15%)	8/24 (33%)
FIRST INCIDENCE	296	445	729 (T)	453

STATISTICAL TESTS

LIFE TABLE	P=0.098	P=0.455N	P=0.112N	P=0.166
POLY 3	P=0.093	P=0.438N	P=0.143N	P=0.179
POLY 1.5	P=0.091	P=0.418N	P=0.133N	P=0.177
POLY 6	P=0.096	P=0.470N	P=0.157N	P=0.181
LOGISTIC REGRESSION	P=0.073	P=0.339N	P=0.112N	P=0.133
COCH-ARM / FISHERS	P=0.091	P=0.393N	P=0.117N	P=0.171
ORDER RESTRICTED	P=0.042*	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung: Alveolus
 Proteinosis

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/41.60	0/39.38	0/40.98	1/42.33
POLY-3 PERCENT (g)	0%	0%	0%	2.4%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	---	---	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.194	(e)	(e)	P=0.484
POLY 3	P=0.204	(e)	(e)	P=0.503
POLY 1.5	P=0.202	(e)	(e)	P=0.503
POLY 6	P=0.206	(e)	(e)	P=0.503
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.484
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
ORDER RESTRICTED	P=0.123	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung: Artery
Mineralization

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/42.53	0/39.38	0/40.98	0/42.33
POLY-3 PERCENT (g)	4.7%	0%	0%	0%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	558	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.112N	P=0.256N	P=0.239N	P=0.231N
POLY 3	P=0.108N	P=0.254N	P=0.245N	P=0.238N
POLY 1.5	P=0.111N	P=0.246N	P=0.242N	P=0.236N
POLY 6	P=0.104N	P=0.268N	P=0.250N	P=0.242N
LOGISTIC REGRESSION	P=0.118N	P=0.240N	P=0.217N	P=0.286N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
ORDER RESTRICTED	P=0.030N*	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung: Bronchiole
Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/41.60	1/39.38	0/40.98	0/42.33
POLY-3 PERCENT (g)	0%	2.5%	0%	0%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	---	729 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.573N	P=0.476	(e)	(e)
POLY 3	P=0.573N	P=0.489	(e)	(e)
POLY 1.5	P=0.570N	P=0.495	(e)	(e)
POLY 6	P=0.579N	P=0.480	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.476	(e)	(e)
COCH-ARM / FISHERS	P=0.567N	P=0.500	(e)	(e)
ORDER RESTRICTED	P=0.367N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung: Bronchiole
Inflammation Chronic

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.60	1/39.38	1/40.98	0/42.33
POLY-3 PERCENT (g)	0%	2.5%	2.4%	0%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	1/27 (4%)	0/24 (0%)
FIRST INCIDENCE	---	729 (T)	729 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.603N	P=0.476	P=0.508	(e)
POLY 3	P=0.591N	P=0.489	P=0.497	(e)
POLY 1.5	P=0.591N	P=0.495	P=0.498	(e)
POLY 6	P=0.593N	P=0.480	P=0.495	(e)
LOGISTIC REGRESSION	(e)	P=0.476	P=0.508	(e)
COCH-ARM / FISHERS	P=0.595N	P=0.500	P=0.500	(e)
ORDER RESTRICTED	P=0.390N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung: Interstitium
Fibrosis

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/41.60	2/40.02	1/41.42	1/42.33
POLY-3 PERCENT (g)	0%	5%	2.4%	2.4%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	---	519	600	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.502	P=0.229	P=0.500	P=0.484
POLY 3	P=0.508	P=0.228	P=0.499	P=0.503
POLY 1.5	P=0.507	P=0.233	P=0.499	P=0.503
POLY 6	P=0.505	P=0.220	P=0.499	P=0.503
LOGISTIC REGRESSION	P=0.484	P=0.240	P=0.514	P=0.484
COCH-ARM / FISHERS	P=0.500	P=0.247	P=0.500	P=0.500
ORDER RESTRICTED	P=0.265	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lymph Node, Bronchial Ectasia

LESION RATES

OVERALL (a)	1/7 (14%)	1/12 (8%)	0/11 (0%)	0/8 (0%)
POLY-3 RATE (b)	1/5.88	1/9.80	0/8.75	0/6.00
POLY-3 PERCENT (g)	17%	10.2%	0%	0%
TERMINAL (d)	0/4 (0%)	1/7 (14%)	0/5 (0%)	0/2 (0%)
FIRST INCIDENCE	571	729 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.269N	P=0.715N	P=0.505N	P=0.496N
POLY 3	P=0.217N	P=0.646N	P=0.418N	P=0.496N
POLY 1.5	P=0.218N	P=0.640N	P=0.411N	P=0.483N
POLY 6	P=0.219N	P=0.658N	P=0.434N	P=0.522N
LOGISTIC REGRESSION	P=0.216N	P=0.656N	P=0.524N	P=0.525N
COCH-ARM / FISHERS	P=0.214N	P=0.614N	P=0.389N	P=0.467N
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lymph Node, Mandibular
Ectasia

LESION RATES

OVERALL (a)	1/1 (100%)	2/3 (67%)	0/0 (0%)	0/1 (0%)
POLY-3 RATE (b)	1/1.00	2/3.00	0/0.00	0/0.56
POLY-3 PERCENT (g)	100%	66.7%	0%	0%
TERMINAL (d)	0/0 (0%)	1/2 (50%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	689	643	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.249N	P=0.712	(e)	P=0.523N
POLY 3	(e)	P=0.691N	(e)	P=1.000
POLY 1.5	(e)	P=0.691N	(e)	P=1.000
POLY 6	(e)	P=0.691N	(e)	P=1.000
LOGISTIC REGRESSION	P=0.258N	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.210N	P=0.750N	(e)	P=0.500N
ORDER RESTRICTED	(e)	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lymph Node, Mediastinal
Hyperplasia Lymphoid

LESION RATES

OVERALL (a)	1/34 (3%)	0/32 (0%)	2/34 (6%)	0/34 (0%)
POLY-3 RATE (b)	1/31.10	0/24.99	2/27.17	0/29.17
POLY-3 PERCENT (g)	3.2%	0%	7.4%	0%
TERMINAL (d)	0/20 (0%)	0/14 (0%)	1/18 (6%)	0/18 (0%)
FIRST INCIDENCE	495	---	569	---

STATISTICAL TESTS

LIFE TABLE	P=0.455N	P=0.500N	P=0.488	P=0.496N
POLY 3	P=0.453N	P=0.543N	P=0.453	P=0.513N
POLY 1.5	P=0.454N	P=0.530N	P=0.469	P=0.508N
POLY 6	P=0.452N	P=0.560N	P=0.435	P=0.519N
LOGISTIC REGRESSION	P=0.434N	P=0.197N	P=0.651	P=0.292N
COCH-ARM / FISHERS	P=0.456N	P=0.515N	P=0.500	P=0.500N
ORDER RESTRICTED	P=0.293N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lymph Node, Mesenteric Hemorrhage

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/41.60	2/39.79	0/40.98	1/42.33
POLY-3 PERCENT (g)	0%	5%	0%	2.4%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	---	613	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.541	P=0.221	(e)	P=0.484
POLY 3	P=0.542	P=0.227	(e)	P=0.503
POLY 1.5	P=0.542	P=0.232	(e)	P=0.503
POLY 6	P=0.538	P=0.219	(e)	P=0.503
LOGISTIC REGRESSION	P=0.545	P=0.237	(e)	P=0.484
COCH-ARM / FISHERS	P=0.539	P=0.247	(e)	P=0.500
ORDER RESTRICTED	P=0.316	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lymph Node: Deep Cervical
Hyperplasia Lymphoid

LESION RATES

OVERALL (a)	0/7 (0%)	0/10 (0%)	1/8 (13%)	2/14 (14%)
POLY-3 RATE (b)	0/6.12	0/8.50	1/6.18	2/12.15
POLY-3 PERCENT (g)	0%	0%	16.2%	16.5%
TERMINAL (d)	0/4 (0%)	0/4 (0%)	0/3 (0%)	1/5 (20%)
FIRST INCIDENCE	---	---	648	584

STATISTICAL TESTS

LIFE TABLE	P=0.091	(e)	P=0.500	P=0.272
POLY 3	P=0.151	(e)	P=0.502	P=0.395
POLY 1.5	P=0.151	(e)	P=0.512	P=0.396
POLY 6	P=0.152	(e)	P=0.490	P=0.394
LOGISTIC REGRESSION	P=0.154	(e)	P=0.581	P=0.429
COCH-ARM / FISHERS	P=0.148	(e)	P=0.533	P=0.433
ORDER RESTRICTED	P=0.218	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Mammary Gland
Galactocele

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	2/41.60	0/39.38	2/40.98	1/42.38
POLY-3 PERCENT (g)	4.8%	0%	4.9%	2.4%
TERMINAL (d)	2/26 (8%)	0/23 (0%)	2/27 (7%)	0/24 (0%)
FIRST INCIDENCE	729 (T)	---	729 (T)	718

STATISTICAL TESTS

LIFE TABLE	P=0.537N	P=0.265N	P=0.683N	P=0.519N
POLY 3	P=0.513N	P=0.249N	P=0.689	P=0.494N
POLY 1.5	P=0.520N	P=0.243N	P=0.690	P=0.495N
POLY 6	P=0.505N	P=0.259N	P=0.686	P=0.495N
LOGISTIC REGRESSION	P=0.525N	(e)	P=0.683N	P=0.511N
COCH-ARM / FISHERS	P=0.531N	P=0.247N	P=0.691N	P=0.500N
ORDER RESTRICTED	P=0.404N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Mesentery
Necrosis

LESION RATES

OVERALL (a)	6/7 (86%)	10/13 (77%)	10/10 (100%)	3/6 (50%)
POLY-3 RATE (b)	6/6.86	10/11.91	10/10.00	3/5.05
POLY-3 PERCENT (g)	87.4%	84%	100%	59.4%
TERMINAL (d)	3/3 (100%)	6/7 (86%)	7/7 (100%)	2/2 (100%)
FIRST INCIDENCE	562	528	569	628

STATISTICAL TESTS

LIFE TABLE	P=0.226N	P=0.506	P=0.621	P=0.315N
POLY 3	P=0.251N	P=0.692N	P=0.489	P=0.324N
POLY 1.5	P=0.199N	P=0.629N	P=0.457	P=0.268N
POLY 6	P=0.360N	P=0.760N	P=0.560	P=0.429N
LOGISTIC REGRESSION	P=0.178N	P=0.628N	P=0.429	P=0.266N
COCH-ARM / FISHERS	P=0.168N	P=0.561N	P=0.412	P=0.217N
ORDER RESTRICTED	P=0.125N	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose
 Foreign Body

LESION RATES

OVERALL (a)	5/50 (10%)	5/50 (10%)	3/49 (6%)	4/50 (8%)
POLY-3 RATE (b)	5/42.09	5/40.74	3/41.59	4/43.56
POLY-3 PERCENT (g)	11.9%	12.3%	7.2%	9.2%
TERMINAL (d)	3/26 (12%)	2/23 (9%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	613	528	554	453

STATISTICAL TESTS

LIFE TABLE	P=0.373N	P=0.563	P=0.364N	P=0.516N
POLY 3	P=0.358N	P=0.611	P=0.362N	P=0.478N
POLY 1.5	P=0.368N	P=0.622	P=0.366N	P=0.484N
POLY 6	P=0.351N	P=0.592	P=0.358N	P=0.477N
LOGISTIC REGRESSION	P=0.404N	P=0.626	P=0.367N	P=0.511N
COCH-ARM / FISHERS	P=0.384N	P=0.630N	P=0.369N	P=0.500N
ORDER RESTRICTED	P=0.437N	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Nose
 Inflammation**

LESION RATES

OVERALL (a)	7/50 (14%)	8/50 (16%)	8/49 (16%)	6/50 (12%)
POLY-3 RATE (b)	7/42.55	8/41.42	8/42.29	6/42.80
POLY-3 PERCENT (g)	16.5%	19.3%	18.9%	14%
TERMINAL (d)	3/26 (12%)	3/23 (13%)	3/27 (11%)	4/24 (17%)
FIRST INCIDENCE	613	445	554	660

STATISTICAL TESTS

LIFE TABLE	P=0.392N	P=0.415	P=0.515	P=0.523N
POLY 3	P=0.393N	P=0.477	P=0.495	P=0.495N
POLY 1.5	P=0.397N	P=0.492	P=0.488	P=0.493N
POLY 6	P=0.395N	P=0.450	P=0.504	P=0.506N
LOGISTIC REGRESSION	P=0.407N	P=0.504	P=0.482	P=0.488N
COCH-ARM / FISHERS	P=0.408N	P=0.500	P=0.483	P=0.500N
ORDER RESTRICTED	P=0.476N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose
Inflammation Chronic

LESION RATES

OVERALL (a)	5/50 (10%)	1/50 (2%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	5/41.69	1/39.92	0/40.50	0/42.33
POLY-3 PERCENT (g)	12%	2.5%	0%	0%
TERMINAL (d)	4/26 (15%)	0/23 (0%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	708	565	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.009N**	P=0.137N	P=0.033N*	P=0.040N*
POLY 3	P=0.007N**	P=0.110N	P=0.032N*	P=0.029N*
POLY 1.5	P=0.007N**	P=0.105N	P=0.032N*	P=0.029N*
POLY 6	P=0.006N**	P=0.118N	P=0.032N*	P=0.029N*
LOGISTIC REGRESSION	P=0.008N**	P=0.118N	P=0.035N*	P=0.034N*
COCH-ARM / FISHERS	P=0.009N**	P=0.102N	P=0.030N*	P=0.028N*
ORDER RESTRICTED	P<0.001N**	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Glands, Respiratory Epithelium
Dilatation

LESION RATES

OVERALL (a)	1/50 (2%)	3/50 (6%)	2/49 (4%)	2/50 (4%)
POLY-3 RATE (b)	1/41.60	3/39.56	2/40.50	2/42.37
POLY-3 PERCENT (g)	2.4%	7.6%	4.9%	4.7%
TERMINAL (d)	1/26 (4%)	2/23 (9%)	2/27 (7%)	1/24 (4%)
FIRST INCIDENCE	729 (T)	683	729 (T)	720

STATISTICAL TESTS

LIFE TABLE	P=0.489	P=0.254	P=0.513	P=0.481
POLY 3	P=0.512	P=0.287	P=0.491	P=0.506
POLY 1.5	P=0.509	P=0.296	P=0.491	P=0.505
POLY 6	P=0.512	P=0.272	P=0.489	P=0.505
LOGISTIC REGRESSION	P=0.513	P=0.252	P=0.513	P=0.488
COCH-ARM / FISHERS	P=0.499	P=0.309	P=0.492	P=0.500
ORDER RESTRICTED	P=0.379	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Glands, Respiratory Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/49 (4%)	4/50 (8%)
POLY-3 RATE (b)	0/41.60	0/39.38	2/40.50	4/42.43
POLY-3 PERCENT (g)	0%	0%	4.9%	9.4%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	2/27 (7%)	2/24 (8%)
FIRST INCIDENCE	---	---	729 (T)	717

STATISTICAL TESTS

LIFE TABLE	P=0.009**	(e)	P=0.246	P=0.062
POLY 3	P=0.009**	(e)	P=0.231	P=0.062
POLY 1.5	P=0.009**	(e)	P=0.231	P=0.062
POLY 6	P=0.009**	(e)	P=0.230	P=0.061
LOGISTIC REGRESSION	P=0.009**	(e)	P=0.246	P=0.058
COCH-ARM / FISHERS	P=0.009**	(e)	P=0.242	P=0.059
ORDER RESTRICTED	P=0.012*	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Goblet Cell
Hyperplasia

LESION RATES

OVERALL (a)	3/50 (6%)	11/50 (22%)	7/49 (14%)	5/50 (10%)
POLY-3 RATE (b)	3/41.69	11/42.26	7/41.69	5/43.11
POLY-3 PERCENT (g)	7.2%	26%	16.8%	11.6%
TERMINAL (d)	2/26 (8%)	3/23 (13%)	3/27 (11%)	3/24 (13%)
FIRST INCIDENCE	708	445	554	453

STATISTICAL TESTS

LIFE TABLE	P=0.520N	P=0.017*	P=0.161	P=0.326
POLY 3	P=0.497N	P=0.019*	P=0.155	P=0.374
POLY 1.5	P=0.506N	P=0.020*	P=0.152	P=0.370
POLY 6	P=0.495N	P=0.018*	P=0.160	P=0.373
LOGISTIC REGRESSION	P=0.536N	P=0.023*	P=0.148	P=0.363
COCH-ARM / FISHERS	P=0.530N	P=0.020*	P=0.151	P=0.357
ORDER RESTRICTED	P=0.120	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Nasolacrimal Duct
Inflammation

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)	3/49 (6%)	0/50 (0%)
POLY-3 RATE (b)	2/42.37	2/39.55	3/40.66	0/42.33
POLY-3 PERCENT (g)	4.7%	5.1%	7.4%	0%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	2/27 (7%)	0/24 (0%)
FIRST INCIDENCE	495	686	688	---

STATISTICAL TESTS

LIFE TABLE	P=0.210N	P=0.633	P=0.483	P=0.245N
POLY 3	P=0.194N	P=0.670	P=0.481	P=0.237N
POLY 1.5	P=0.195N	P=0.681	P=0.484	P=0.236N
POLY 6	P=0.194N	P=0.651	P=0.477	P=0.240N
LOGISTIC REGRESSION	P=0.197N	P=0.689N	P=0.492	P=0.278N
COCH-ARM / FISHERS	P=0.200N	P=0.691N	P=0.490	P=0.247N
ORDER RESTRICTED	P=0.144N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Nasolacrimal Duct, Epithelium
Metaplasia

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	1/49 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/41.60	2/39.38	1/40.50	0/42.33
POLY-3 PERCENT (g)	0%	5.1%	2.5%	0%
TERMINAL (d)	0/26 (0%)	2/23 (9%)	1/27 (4%)	0/24 (0%)
FIRST INCIDENCE	---	729 (T)	729 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.470N	P=0.211	P=0.508	(e)
POLY 3	P=0.459N	P=0.225	P=0.495	(e)
POLY 1.5	P=0.458N	P=0.231	P=0.495	(e)
POLY 6	P=0.464N	P=0.215	P=0.494	(e)
LOGISTIC REGRESSION	(e)	P=0.211	P=0.508	(e)
COCH-ARM / FISHERS	P=0.462N	P=0.247	P=0.495	(e)
ORDER RESTRICTED	P=0.311N	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Nose: Olfactory Epithelium
 Degeneration Hyaline**

LESION RATES

OVERALL (a)	3/50 (6%)	2/50 (4%)	1/49 (2%)	0/50 (0%)
POLY-3 RATE (b)	3/42.10	2/39.38	1/41.06	0/42.33
POLY-3 PERCENT (g)	7.1%	5.1%	2.4%	0%
TERMINAL (d)	1/26 (4%)	2/23 (9%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	628	729 (T)	554	---

STATISTICAL TESTS

LIFE TABLE	P=0.064N	P=0.565N	P=0.314N	P=0.128N
POLY 3	P=0.059N	P=0.530N	P=0.314N	P=0.117N
POLY 1.5	P=0.060N	P=0.515N	P=0.314N	P=0.117N
POLY 6	P=0.058N	P=0.556N	P=0.315N	P=0.119N
LOGISTIC REGRESSION	P=0.062N	P=0.538N	P=0.307N	P=0.119N
COCH-ARM / FISHERS	P=0.062N	P=0.500N	P=0.316N	P=0.121N
ORDER RESTRICTED	P=0.055N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Olfactory Epithelium
Hyperplasia Basal Cell

LESION RATES

OVERALL (a)	0/50 (0%)	19/50 (38%)	27/49 (55%)	26/50 (52%)
POLY-3 RATE (b)	0/41.60	19/42.52	27/43.69	26/45.80
POLY-3 PERCENT (g)	0%	44.7%	61.8%	56.8%
TERMINAL (d)	0/26 (0%)	11/23 (48%)	17/27 (63%)	14/24 (58%)
FIRST INCIDENCE	---	519	495	554

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Olfactory Epithelium
Metaplasia

LESION RATES

OVERALL (a)	7/50 (14%)	4/50 (8%)	5/49 (10%)	5/50 (10%)
POLY-3 RATE (b)	7/42.20	4/40.02	5/40.88	5/42.69
POLY-3 PERCENT (g)	16.6%	10%	12.2%	11.7%
TERMINAL (d)	4/26 (15%)	3/23 (13%)	3/27 (11%)	4/24 (17%)
FIRST INCIDENCE	622	519	670	628

STATISTICAL TESTS

LIFE TABLE	P=0.401N	P=0.344N	P=0.387N	P=0.416N
POLY 3	P=0.371N	P=0.290N	P=0.400N	P=0.370N
POLY 1.5	P=0.380N	P=0.274N	P=0.399N	P=0.370N
POLY 6	P=0.364N	P=0.318N	P=0.405N	P=0.376N
LOGISTIC REGRESSION	P=0.367N	P=0.295N	P=0.399N	P=0.369N
COCH-ARM / FISHERS	P=0.394N	P=0.262N	P=0.394N	P=0.380N
ORDER RESTRICTED	P=0.365N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Olfactory Epithelium
Ulcer

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/49 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/41.60	0/39.38	2/41.17	0/42.33
POLY-3 PERCENT (g)	0%	0%	4.9%	0%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	626	---

STATISTICAL TESTS

LIFE TABLE	P=0.618	(e)	P=0.248	(e)
POLY 3	P=0.612	(e)	P=0.234	(e)
POLY 1.5	P=0.607	(e)	P=0.233	(e)
POLY 6	P=0.615	(e)	P=0.236	(e)
LOGISTIC REGRESSION	P=0.582	(e)	P=0.237	(e)
COCH-ARM / FISHERS	P=0.594	(e)	P=0.242	(e)
ORDER RESTRICTED	P=0.245	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Nose: Respiratory Epithelium
 Degeneration Hyaline**

LESION RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/41.60	1/39.38	0/40.50	0/42.33
POLY-3 PERCENT (g)	2.4%	2.5%	0%	0%
TERMINAL (d)	1/26 (4%)	1/23 (4%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.240N	P=0.735	P=0.492N	P=0.516N
POLY 3	P=0.236N	P=0.749	P=0.505N	P=0.497N
POLY 1.5	P=0.237N	P=0.755	P=0.505N	P=0.497N
POLY 6	P=0.236N	P=0.739	P=0.506N	P=0.497N
LOGISTIC REGRESSION	P=0.240N	P=0.735	(e)	(e)
COCH-ARM / FISHERS	P=0.236N	P=0.753N	P=0.505N	P=0.500N
ORDER RESTRICTED	P=0.237N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Respiratory Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	15/50 (30%)	16/49 (33%)	23/50 (46%)
POLY-3 RATE (b)	0/41.60	15/40.57	16/42.62	23/44.93
POLY-3 PERCENT (g)	0%	37%	37.5%	51.2%
TERMINAL (d)	0/26 (0%)	10/23 (44%)	8/27 (30%)	12/24 (50%)
FIRST INCIDENCE	---	632	626	584

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Respiratory Epithelium
Inflammation Chronic

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/49 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/41.60	0/39.38	1/40.50	2/42.53
POLY-3 PERCENT (g)	0%	0%	2.5%	4.7%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	1/27 (4%)	1/24 (4%)
FIRST INCIDENCE	---	---	729 (T)	677

STATISTICAL TESTS

LIFE TABLE	P=0.072	(e)	P=0.508	P=0.231
POLY 3	P=0.075	(e)	P=0.495	P=0.242
POLY 1.5	P=0.074	(e)	P=0.495	P=0.241
POLY 6	P=0.077	(e)	P=0.494	P=0.241
LOGISTIC REGRESSION	P=0.077	(e)	P=0.508	P=0.240
COCH-ARM / FISHERS	P=0.070	(e)	P=0.495	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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Pancreas: Acinus Atrophy

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	2/41.60	2/39.38	2/41.30	2/42.53
POLY-3 PERCENT (g)	4.8%	5.1%	4.8%	4.7%
TERMINAL (d)	2/26 (8%)	2/23 (9%)	1/27 (4%)	1/24 (4%)
FIRST INCIDENCE	729 (T)	729 (T)	639	677

STATISTICAL TESTS

LIFE TABLE	P=0.594	P=0.652	P=0.679N	P=0.673
POLY 3	P=0.581N	P=0.675	P=0.692	P=0.686N
POLY 1.5	P=0.586N	P=0.685	P=0.692	P=0.688N
POLY 6	P=0.576N	P=0.659	P=0.692	P=0.687N
LOGISTIC REGRESSION	P=0.578N	P=0.652	P=0.688	P=0.696N
COCH-ARM / FISHERS	P=0.596	P=0.691N	P=0.691N	P=0.691N
ORDER RESTRICTED	P=0.725N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Pancreas: Acinus
Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	0/41.60	0/39.38	1/41.35	3/43.08
POLY-3 PERCENT (g)	0%	0%	2.4%	7%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	---	---	625	584

STATISTICAL TESTS

LIFE TABLE	P=0.025*	(e)	P=0.520	P=0.125
POLY 3	P=0.022*	(e)	P=0.499	P=0.124
POLY 1.5	P=0.021*	(e)	P=0.499	P=0.123
POLY 6	P=0.023*	(e)	P=0.498	P=0.126
LOGISTIC REGRESSION	P=0.017*	(e)	P=0.508	P=0.112
COCH-ARM / FISHERS	P=0.020*	(e)	P=0.500	P=0.121
ORDER RESTRICTED	P=0.023*	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Pituitary Gland
Cyst

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	2/49 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/41.60	1/39.70	2/40.94	0/42.33
POLY-3 PERCENT (g)	0%	2.5%	4.9%	0%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	1/27 (4%)	0/24 (0%)
FIRST INCIDENCE	---	643	600	---

STATISTICAL TESTS

LIFE TABLE	P=0.604N	P=0.483	P=0.244	(e)
POLY 3	P=0.607N	P=0.491	P=0.233	(e)
POLY 1.5	P=0.609N	P=0.496	P=0.233	(e)
POLY 6	P=0.608N	P=0.483	P=0.234	(e)
LOGISTIC REGRESSION	P=0.625N	P=0.505	P=0.234	(e)
COCH-ARM / FISHERS	P=0.616N	P=0.500	P=0.242	(e)
ORDER RESTRICTED	P=0.314N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Pituitary Gland Hemorrhage

LESION RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	1/49 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/42.53	1/39.48	1/40.61	3/42.57
POLY-3 PERCENT (g)	2.4%	2.5%	2.5%	7.1%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	2/24 (8%)
FIRST INCIDENCE	296	705	702	667

STATISTICAL TESTS

LIFE TABLE	P=0.170	P=0.737	P=0.743	P=0.296
POLY 3	P=0.169	P=0.744	P=0.751	P=0.305
POLY 1.5	P=0.167	P=0.751	P=0.752	P=0.306
POLY 6	P=0.171	P=0.734	P=0.750	P=0.303
LOGISTIC REGRESSION	P=0.144	P=0.717	P=0.739N	P=0.232
COCH-ARM / FISHERS	P=0.163	P=0.753N	P=0.747	P=0.309
ORDER RESTRICTED	P=0.188	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Pituitary Gland
 Hyperplasia**

LESION RATES

OVERALL (a)	6/50 (12%)	7/50 (14%)	13/49 (27%)	6/50 (12%)
POLY-3 RATE (b)	6/42.56	7/40.84	13/43.00	6/43.13
POLY-3 PERCENT (g)	14.1%	17.1%	30.2%	13.9%
TERMINAL (d)	3/26 (12%)	4/23 (17%)	7/27 (26%)	2/24 (8%)
FIRST INCIDENCE	599	445	523	584

STATISTICAL TESTS

LIFE TABLE	P=0.505	P=0.411	P=0.080	P=0.593
POLY 3	P=0.530	P=0.468	P=0.059	P=0.612N
POLY 1.5	P=0.520	P=0.486	P=0.057	P=0.612N
POLY 6	P=0.536	P=0.436	P=0.063	P=0.618N
LOGISTIC REGRESSION	P=0.499	P=0.500	P=0.057	P=0.615N
COCH-ARM / FISHERS	P=0.498	P=0.500	P=0.056	P=0.620N
ORDER RESTRICTED	P=0.268	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Pleura
Inflammation Chronic

LESION RATES

OVERALL (a)	4/5 (80%)	3/3 (100%)	4/5 (80%)	6/6 (100%)
POLY-3 RATE (b)	4/5.00	3/3.00	4/5.00	6/6.00
POLY-3 PERCENT (g)	80%	100%	80%	100%
TERMINAL (d)	3/4 (75%)	3/3 (100%)	3/4 (75%)	4/4 (100%)
FIRST INCIDENCE	296	729 (T)	648	515

STATISTICAL TESTS

LIFE TABLE	P=0.172	P=0.729N	P=0.693N	P=0.331
POLY 3	P=0.345	P=0.599	P=0.760	P=0.463
POLY 1.5	P=0.345	P=0.599	P=0.760	P=0.463
POLY 6	P=0.345	P=0.599	P=0.760	P=0.463
LOGISTIC REGRESSION	(e)	P=0.729N	(e)	(e)
COCH-ARM / FISHERS	P=0.335	P=0.625	P=0.778N	P=0.455
ORDER RESTRICTED	P=0.213	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Preputial Gland
Cyst

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/42.05	0/39.38	2/41.44	0/42.33
POLY-3 PERCENT (g)	2.4%	0%	4.8%	0%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	599	---	645	---

STATISTICAL TESTS

LIFE TABLE	P=0.450N	P=0.524N	P=0.486	P=0.496N
POLY 3	P=0.447N	P=0.513N	P=0.495	P=0.499N
POLY 1.5	P=0.452N	P=0.506N	P=0.496	P=0.498N
POLY 6	P=0.443N	P=0.523N	P=0.493	P=0.501N
LOGISTIC REGRESSION	P=0.474N	P=0.504N	P=0.508	P=0.547N
COCH-ARM / FISHERS	P=0.461N	P=0.500N	P=0.500	P=0.500N
ORDER RESTRICTED	P=0.314N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Prostate
Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/41.60	1/39.38	1/40.98	2/42.33
POLY-3 PERCENT (g)	0%	2.5%	2.4%	4.7%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	1/27 (4%)	2/24 (8%)
FIRST INCIDENCE	---	729 (T)	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.143	P=0.476	P=0.508	P=0.220
POLY 3	P=0.159	P=0.489	P=0.497	P=0.241
POLY 1.5	P=0.158	P=0.495	P=0.498	P=0.240
POLY 6	P=0.159	P=0.480	P=0.495	P=0.239
LOGISTIC REGRESSION (e)		P=0.476	P=0.508	P=0.220
COCH-ARM / FISHERS	P=0.153	P=0.500	P=0.500	P=0.247
ORDER RESTRICTED	P=0.121	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Prostate
Inflammation

LESION RATES

OVERALL (a)	42/50 (84%)	32/50 (64%)	27/50 (54%)	28/50 (56%)
POLY-3 RATE (b)	42/48.60	32/45.48	27/44.95	28/45.87
POLY-3 PERCENT (g)	86.4%	70.4%	60.1%	61.1%
TERMINAL (d)	22/26 (85%)	16/23 (70%)	16/27 (59%)	16/24 (67%)
FIRST INCIDENCE	296	480	460	515

STATISTICAL TESTS

LIFE TABLE	P=0.021N*	P=0.242N	P=0.014N*	P=0.033N*
POLY 3	P=0.003N**	P=0.038N*	P=0.002N**	P=0.003N**
POLY 1.5	P=0.003N**	P=0.027N*	P<0.001N**	P=0.002N**
POLY 6	P=0.004N**	P=0.063N	P=0.003N**	P=0.004N**
LOGISTIC REGRESSION	P=0.003N**	P=0.022N*	P<0.001N**	P=0.002N**
COCH-ARM / FISHERS	P=0.004N**	P=0.020N*	P<0.001N**	P=0.002N**
ORDER RESTRICTED	P<0.001N**	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Skin
Cyst Epithelial Inclusion

LESION RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/42.15	1/39.38	0/40.98	2/42.33
POLY-3 PERCENT (g)	2.4%	2.5%	0%	4.7%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	0/27 (0%)	2/24 (8%)
FIRST INCIDENCE	558	729 (T)	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.358	P=0.739	P=0.513N	P=0.479
POLY 3	P=0.372	P=0.746	P=0.506N	P=0.501
POLY 1.5	P=0.370	P=0.753	P=0.503N	P=0.503
POLY 6	P=0.372	P=0.734	P=0.509N	P=0.497
LOGISTIC REGRESSION	P=0.373	P=0.758N	P=0.475N	P=0.496
COCH-ARM / FISHERS	P=0.366	P=0.753N	P=0.500N	P=0.500
ORDER RESTRICTED	P=0.279	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(F 344)

TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Skin
Ulcer

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/41.60	0/39.38	0/40.98	1/42.33
POLY-3 PERCENT (g)	0%	0%	0%	2.4%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	---	---	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.194	(e)	(e)	P=0.484
POLY 3	P=0.204	(e)	(e)	P=0.503
POLY 1.5	P=0.202	(e)	(e)	P=0.503
POLY 6	P=0.206	(e)	(e)	P=0.503
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.484
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
ORDER RESTRICTED	P=0.123	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Spleen
Fibrosis

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)	7/50 (14%)	2/50 (4%)
POLY-3 RATE (b)	2/42.01	2/39.56	7/41.85	2/42.33
POLY-3 PERCENT (g)	4.8%	5.1%	16.7%	4.7%
TERMINAL (d)	1/26 (4%)	1/23 (4%)	3/27 (11%)	2/24 (8%)
FIRST INCIDENCE	613	683	626	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.480	P=0.645	P=0.087	P=0.679
POLY 3	P=0.503	P=0.673	P=0.076	P=0.692N
POLY 1.5	P=0.497	P=0.684	P=0.077	P=0.691N
POLY 6	P=0.503	P=0.656	P=0.075	P=0.693
LOGISTIC REGRESSION	P=0.500	P=0.681	P=0.078	P=0.690N
COCH-ARM / FISHERS	P=0.481	P=0.691N	P=0.080	P=0.691N
ORDER RESTRICTED	P=0.239	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Spleen
Hematopoietic Cell Proliferation

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/41.60	0/39.38	0/40.98	1/42.33
POLY-3 PERCENT (g)	0%	0%	0%	2.4%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	---	---	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.194	(e)	(e)	P=0.484
POLY 3	P=0.204	(e)	(e)	P=0.503
POLY 1.5	P=0.202	(e)	(e)	P=0.503
POLY 6	P=0.206	(e)	(e)	P=0.503
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.484
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
ORDER RESTRICTED	P=0.123	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Spleen
Hemorrhage

LESION RATES

OVERALL (a)	4/50 (8%)	4/50 (8%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	4/42.89	4/40.59	2/41.61	4/43.43
POLY-3 PERCENT (g)	9.3%	9.9%	4.8%	9.2%
TERMINAL (d)	0/26 (0%)	1/23 (4%)	1/27 (4%)	1/24 (4%)
FIRST INCIDENCE	607	589	523	515

STATISTICAL TESTS

LIFE TABLE	P=0.513N	P=0.583	P=0.339N	P=0.633N
POLY 3	P=0.526N	P=0.613	P=0.351N	P=0.637N
POLY 1.5	P=0.529N	P=0.629	P=0.345N	P=0.636N
POLY 6	P=0.527N	P=0.589	P=0.362N	P=0.644N
LOGISTIC REGRESSION	P=0.574N	P=0.629N	P=0.322N	P=0.603
COCH-ARM / FISHERS	P=0.537N	P=0.643N	P=0.339N	P=0.643N
ORDER RESTRICTED	P=0.525N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Spleen
Necrosis

LESION RATES

OVERALL (a)	1/50 (2%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/41.99	3/39.70	1/41.54	0/42.33
POLY-3 PERCENT (g)	2.4%	7.6%	2.4%	0%
TERMINAL (d)	0/26 (0%)	2/23 (9%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	620	643	554	---

STATISTICAL TESTS

LIFE TABLE	P=0.196N	P=0.270	P=0.757N	P=0.486N
POLY 3	P=0.198N	P=0.285	P=0.759	P=0.498N
POLY 1.5	P=0.198N	P=0.295	P=0.759	P=0.498N
POLY 6	P=0.202N	P=0.269	P=0.757	P=0.501N
LOGISTIC REGRESSION	P=0.205N	P=0.297	P=0.748N	P=0.531N
COCH-ARM / FISHERS	P=0.200N	P=0.309	P=0.753N	P=0.500N
ORDER RESTRICTED	P=0.143N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Stomach, Forestomach
Inflammation

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/41.60	0/39.38	2/42.17	0/42.33
POLY-3 PERCENT (g)	0%	0%	4.7%	0%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	460	---

STATISTICAL TESTS

LIFE TABLE	P=0.602	(e)	P=0.240	(e)
POLY 3	P=0.613	(e)	P=0.240	(e)
POLY 1.5	P=0.607	(e)	P=0.239	(e)
POLY 6	P=0.616	(e)	P=0.241	(e)
LOGISTIC REGRESSION	P=0.548	(e)	P=0.263	(e)
COCH-ARM / FISHERS	P=0.595	(e)	P=0.247	(e)
ORDER RESTRICTED	P=0.250	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Stomach, Forestomach
Ulcer

LESION RATES

OVERALL (a)	3/50 (6%)	7/50 (14%)	1/50 (2%)	8/50 (16%)
POLY-3 RATE (b)	3/43.11	7/41.62	1/41.27	8/44.13
POLY-3 PERCENT (g)	7%	16.8%	2.4%	18.1%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	2/24 (8%)
FIRST INCIDENCE	467	575	648	600

STATISTICAL TESTS

LIFE TABLE	P=0.176	P=0.136	P=0.303N	P=0.125
POLY 3	P=0.136	P=0.141	P=0.321N	P=0.104
POLY 1.5	P=0.135	P=0.149	P=0.315N	P=0.103
POLY 6	P=0.137	P=0.131	P=0.329N	P=0.105
LOGISTIC REGRESSION	P=0.108	P=0.168	P=0.274N	P=0.074
COCH-ARM / FISHERS	P=0.136	P=0.159	P=0.309N	P=0.100
ORDER RESTRICTED	P=0.065	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Stomach, Forestomach: Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	6/50 (12%)	11/50 (22%)	7/50 (14%)	10/50 (20%)
POLY-3 RATE (b)	6/44.78	11/43.26	7/42.83	10/44.59
POLY-3 PERCENT (g)	13.4%	25.4%	16.3%	22.4%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	1/27 (4%)	2/24 (8%)
FIRST INCIDENCE	467	519	554	600

STATISTICAL TESTS

LIFE TABLE	P=0.348	P=0.129	P=0.491	P=0.247
POLY 3	P=0.278	P=0.121	P=0.465	P=0.201
POLY 1.5	P=0.281	P=0.131	P=0.478	P=0.205
POLY 6	P=0.273	P=0.112	P=0.453	P=0.196
LOGISTIC REGRESSION	P=0.215	P=0.175	P=0.532	P=0.141
COCH-ARM / FISHERS	P=0.283	P=0.143	P=0.500	P=0.207
ORDER RESTRICTED	P=0.214	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Stomach, Glandular
Erosion

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	2/42.39	1/39.89	1/41.32	2/42.96
POLY-3 PERCENT (g)	4.7%	2.5%	2.4%	4.7%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	613	575	634	635

STATISTICAL TESTS

LIFE TABLE	P=0.596	P=0.523N	P=0.479N	P=0.660N
POLY 3	P=0.569	P=0.521N	P=0.509N	P=0.690N
POLY 1.5	P=0.564	P=0.510N	P=0.505N	P=0.689N
POLY 6	P=0.574	P=0.539N	P=0.515N	P=0.692N
LOGISTIC REGRESSION	P=0.521	P=0.501N	P=0.485N	P=0.657
COCH-ARM / FISHERS	P=0.556	P=0.500N	P=0.500N	P=0.691N
ORDER RESTRICTED	P=0.556N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Stomach, Glandular
Ulcer

LESION RATES

OVERALL (a)	3/50 (6%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	3/43.15	0/39.38	1/41.61	1/42.65
POLY-3 PERCENT (g)	7%	0%	2.4%	2.3%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	0/24 (0%)
FIRST INCIDENCE	495	---	523	642

STATISTICAL TESTS

LIFE TABLE	P=0.283N	P=0.134N	P=0.309N	P=0.292N
POLY 3	P=0.281N	P=0.135N	P=0.318N	P=0.309N
POLY 1.5	P=0.287N	P=0.127N	P=0.313N	P=0.306N
POLY 6	P=0.272N	P=0.149N	P=0.326N	P=0.316N
LOGISTIC REGRESSION	P=0.341N	P=0.121N	P=0.260N	P=0.391N
COCH-ARM / FISHERS	P=0.296N	P=0.121N	P=0.309N	P=0.309N
ORDER RESTRICTED	P=0.107N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Testes: Artery
Inflammation Chronic

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/41.60	1/39.46	2/40.98	0/42.33
POLY-3 PERCENT (g)	0%	2.5%	4.9%	0%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	2/27 (7%)	0/24 (0%)
FIRST INCIDENCE	---	711	729 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.617N	P=0.462	P=0.246	(e)
POLY 3	P=0.607N	P=0.489	P=0.233	(e)
POLY 1.5	P=0.609N	P=0.495	P=0.235	(e)
POLY 6	P=0.607N	P=0.481	P=0.231	(e)
LOGISTIC REGRESSION	P=0.607N	P=0.476	P=0.246	(e)
COCH-ARM / FISHERS	P=0.616N	P=0.500	P=0.247	(e)
ORDER RESTRICTED	P=0.313N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Testes: Germinal Epithelium Atrophy

LESION RATES

OVERALL (a)	6/50 (12%)	5/50 (10%)	3/50 (6%)	6/50 (12%)
POLY-3 RATE (b)	6/42.86	5/40.89	3/41.42	6/43.09
POLY-3 PERCENT (g)	14%	12.2%	7.2%	13.9%
TERMINAL (d)	2/26 (8%)	2/23 (9%)	2/27 (7%)	1/24 (4%)
FIRST INCIDENCE	495	480	600	554

STATISTICAL TESTS

LIFE TABLE	P=0.549N	P=0.566N	P=0.249N	P=0.597
POLY 3	P=0.554N	P=0.533N	P=0.257N	P=0.618N
POLY 1.5	P=0.557N	P=0.516N	P=0.252N	P=0.616N
POLY 6	P=0.554N	P=0.560N	P=0.266N	P=0.620
LOGISTIC REGRESSION	P=0.557	P=0.483N	P=0.241N	P=0.619
COCH-ARM / FISHERS	P=0.563	P=0.500N	P=0.243N	P=0.620N
ORDER RESTRICTED	P=0.495N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Testes: Interstitial Cell
Hyperplasia

LESION RATES

OVERALL (a)	12/50 (24%)	18/50 (36%)	19/50 (38%)	10/50 (20%)
POLY-3 RATE (b)	12/43.93	18/44.59	19/45.62	10/45.19
POLY-3 PERCENT (g)	27.3%	40.4%	41.7%	22.1%
TERMINAL (d)	5/26 (19%)	5/23 (22%)	7/27 (26%)	2/24 (8%)
FIRST INCIDENCE	495	445	460	515

STATISTICAL TESTS

LIFE TABLE	P=0.264N	P=0.101	P=0.125	P=0.426N
POLY 3	P=0.211N	P=0.138	P=0.111	P=0.373N
POLY 1.5	P=0.226N	P=0.140	P=0.103	P=0.384N
POLY 6	P=0.197N	P=0.135	P=0.125	P=0.364N
LOGISTIC REGRESSION	P=0.297N	P=0.156	P=0.101	P=0.439N
COCH-ARM / FISHERS	P=0.256N	P=0.138	P=0.097	P=0.405N
ORDER RESTRICTED	P=0.107N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Thyroid Gland: C-Cell
Hyperplasia

LESION RATES

OVERALL (a)	7/50 (14%)	11/50 (22%)	6/50 (12%)	8/50 (16%)
POLY-3 RATE (b)	7/42.66	11/40.42	6/41.66	8/43.23
POLY-3 PERCENT (g)	16.4%	27.2%	14.4%	18.5%
TERMINAL (d)	3/26 (12%)	7/23 (30%)	5/27 (19%)	4/24 (17%)
FIRST INCIDENCE	571	565	495	635

STATISTICAL TESTS

LIFE TABLE	P=0.500N	P=0.150	P=0.491N	P=0.478
POLY 3	P=0.481N	P=0.174	P=0.518N	P=0.511
POLY 1.5	P=0.486N	P=0.195	P=0.510N	P=0.510
POLY 6	P=0.480N	P=0.145	P=0.534N	P=0.508
LOGISTIC REGRESSION	P=0.470N	P=0.174	P=0.507N	P=0.511
COCH-ARM / FISHERS	P=0.500N	P=0.218	P=0.500N	P=0.500
ORDER RESTRICTED	P=0.422N	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Tongue: Epithelium
 Hyperplasia

LESION RATES

OVERALL (a)	1/1 (100%)	2/3 (67%)	1/1 (100%)	3/3 (100%)
POLY-3 RATE (b)	1/1.00	2/3.00	1/1.00	3/3.00
POLY-3 PERCENT (g)	100%	66.7%	100%	100%
TERMINAL (d)	1/1 (100%)	1/2 (50%)	1/1 (100%)	1/1 (100%)
FIRST INCIDENCE	729 (T)	643	729 (T)	635

STATISTICAL TESTS

LIFE TABLE	P=0.135	P=0.679	(e)	(e)
POLY 3	P=0.472	P=0.691N	(e)	(e)
POLY 1.5	P=0.472	P=0.691N	(e)	(e)
POLY 6	P=0.472	P=0.691N	(e)	(e)
LOGISTIC REGRESSION	P=0.135	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.465	P=0.750N	(e)	(e)
ORDER RESTRICTED	P=0.503	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Tooth: Peridental Tissue
Inflammation

LESION RATES

OVERALL (a)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/1.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/0 (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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	250 PPM	500 PPM	1000 PPM

Urinary Bladder: Transitional Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	4/49 (8%)	2/50 (4%)
POLY-3 RATE (b)	1/42.14	0/39.38	4/41.41	2/42.35
POLY-3 PERCENT (g)	2.4%	0%	9.7%	4.7%
TERMINAL (d)	0/26 (0%)	0/23 (0%)	0/27 (0%)	1/24 (4%)
FIRST INCIDENCE	562	---	626	726

STATISTICAL TESTS

LIFE TABLE	P=0.253	P=0.509N	P=0.172	P=0.486
POLY 3	P=0.251	P=0.514N	P=0.172	P=0.502
POLY 1.5	P=0.246	P=0.507N	P=0.172	P=0.503
POLY 6	P=0.253	P=0.524N	P=0.174	P=0.497
LOGISTIC REGRESSION	P=0.234	P=0.523N	P=0.177	P=0.496
COCH-ARM / FISHERS	P=0.237	P=0.500N	P=0.175	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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Adrenal Cortex
Hyperplasia

LESION RATES

OVERALL (a)	9/50 (18%)	9/49 (18%)	13/50 (26%)	12/50 (24%)
POLY-3 RATE (b)	9/42.09	9/42.11	13/44.61	12/44.57
POLY-3 PERCENT (g)	21.4%	21.4%	29.1%	26.9%
TERMINAL (d)	3/21 (14%)	7/27 (26%)	8/31 (26%)	8/32 (25%)
FIRST INCIDENCE	635	562	528	618

STATISTICAL TESTS

LIFE TABLE	P=0.482	P=0.449N	P=0.476	P=0.579
POLY 3	P=0.270	P=0.604N	P=0.279	P=0.362
POLY 1.5	P=0.245	P=0.592	P=0.259	P=0.336
POLY 6	P=0.312	P=0.599N	P=0.305	P=0.403
LOGISTIC REGRESSION	P=0.246	P=0.589N	P=0.254	P=0.343
COCH-ARM / FISHERS	P=0.222	P=0.584	P=0.235	P=0.312
ORDER RESTRICTED	P=0.374	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Adrenal Cortex
Necrosis

LESION RATES

OVERALL (a)	2/50 (4%)	0/49 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/42.45	0/41.47	0/42.92	1/43.33
POLY-3 PERCENT (g)	4.7%	0%	0%	2.3%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (0%)
FIRST INCIDENCE	374	---	---	696

STATISTICAL TESTS

LIFE TABLE	P=0.454N	P=0.240N	P=0.240N	P=0.487N
POLY 3	P=0.458N	P=0.242N	P=0.234N	P=0.493N
POLY 1.5	P=0.457N	P=0.244N	P=0.237N	P=0.499N
POLY 6	P=0.459N	P=0.239N	P=0.229N	P=0.480N
LOGISTIC REGRESSION	P=0.484N	P=0.119N	P=0.187N	P=0.442N
COCH-ARM / FISHERS	P=0.459N	P=0.253N	P=0.247N	P=0.500N
ORDER RESTRICTED	P=0.128N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Adrenal Cortex
Vacuolization Cytoplasmic

LESION RATES

OVERALL (a)	11/50 (22%)	18/49 (37%)	16/50 (32%)	7/50 (14%)
POLY-3 RATE (b)	11/43.05	18/44.52	16/44.72	7/44.31
POLY-3 PERCENT (g)	25.6%	40.4%	35.8%	15.8%
TERMINAL (d)	3/21 (14%)	10/27 (37%)	12/31 (39%)	3/32 (9%)
FIRST INCIDENCE	485	514	530	607

STATISTICAL TESTS

LIFE TABLE	P=0.029N*	P=0.217	P=0.448	P=0.120N
POLY 3	P=0.070N	P=0.101	P=0.207	P=0.193N
POLY 1.5	P=0.080N	P=0.089	P=0.196	P=0.207N
POLY 6	P=0.055N	P=0.118	P=0.225	P=0.171N
LOGISTIC REGRESSION	P=0.090N	P=0.082	P=0.191	P=0.220N
COCH-ARM / FISHERS	P=0.092N	P=0.082	P=0.184	P=0.218N
ORDER RESTRICTED	P=0.039N*	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Adrenal Medulla
 Hyperplasia**

LESION 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	0/43.20
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Brain
Compression

LESION RATES

OVERALL (a)	12/50 (24%)	9/49 (18%)	4/50 (8%)	5/50 (10%)
POLY-3 RATE (b)	12/43.35	9/43.35	4/43.01	5/44.61
POLY-3 PERCENT (g)	27.7%	20.8%	9.3%	11.2%
TERMINAL (d)	3/21 (14%)	1/27 (4%)	2/31 (7%)	0/32 (0%)
FIRST INCIDENCE	501	598	715	542

STATISTICAL TESTS

LIFE TABLE	P=0.016N*	P=0.250N	P=0.013N*	P=0.034N*
POLY 3	P=0.021N*	P=0.307N	P=0.025N*	P=0.043N*
POLY 1.5	P=0.022N*	P=0.324N	P=0.025N*	P=0.049N*
POLY 6	P=0.018N*	P=0.286N	P=0.024N*	P=0.036N*
LOGISTIC REGRESSION	P=0.026N*	P=0.331N	P=0.027N*	P=0.059N
COCH-ARM / FISHERS	P=0.025N*	P=0.331N	P=0.027N*	P=0.054N
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Brain
Hemorrhage

LESION RATES

OVERALL (a)	1/50 (2%)	3/49 (6%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	1/40.95	3/42.00	2/43.13	3/44.51
POLY-3 PERCENT (g)	2.4%	7.1%	4.6%	6.7%
TERMINAL (d)	0/21 (0%)	1/27 (4%)	1/31 (3%)	0/32 (0%)
FIRST INCIDENCE	716	655	673	400

STATISTICAL TESTS

LIFE TABLE	P=0.370	P=0.346	P=0.577	P=0.343
POLY 3	P=0.344	P=0.314	P=0.518	P=0.335
POLY 1.5	P=0.326	P=0.305	P=0.510	P=0.321
POLY 6	P=0.372	P=0.326	P=0.532	P=0.357
LOGISTIC REGRESSION	P=0.295	P=0.303	P=0.523	P=0.302
COCH-ARM / FISHERS	P=0.305	P=0.301	P=0.500	P=0.309
ORDER RESTRICTED	P=0.298	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Clitoral Gland
 Cyst**

LESION RATES

OVERALL (a)	0/50 (0%)	2/49 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/40.89	2/41.52	2/43.39	1/43.20
POLY-3 PERCENT (g)	0%	4.8%	4.6%	2.3%
TERMINAL (d)	0/21 (0%)	1/27 (4%)	0/31 (0%)	1/32 (3%)
FIRST INCIDENCE	---	717	611	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.555	P=0.290	P=0.267	P=0.584
POLY 3	P=0.501	P=0.240	P=0.250	P=0.511
POLY 1.5	P=0.486	P=0.236	P=0.244	P=0.505
POLY 6	P=0.526	P=0.246	P=0.260	P=0.520
LOGISTIC REGRESSION	P=0.486	P=0.256	P=0.231	P=0.584
COCH-ARM / FISHERS	P=0.472	P=0.242	P=0.247	P=0.500
ORDER RESTRICTED	P=0.233	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Clitoral Gland
 Hyperplasia**

LESION RATES

OVERALL (a)	2/50 (4%)	5/49 (10%)	7/50 (14%)	5/50 (10%)
POLY-3 RATE (b)	2/40.89	5/42.02	7/43.18	5/43.66
POLY-3 PERCENT (g)	4.9%	11.9%	16.2%	11.5%
TERMINAL (d)	2/21 (10%)	2/27 (7%)	6/31 (19%)	3/32 (9%)
FIRST INCIDENCE	730 (T)	628	661	638

STATISTICAL TESTS

LIFE TABLE	P=0.391	P=0.305	P=0.188	P=0.369
POLY 3	P=0.262	P=0.226	P=0.091	P=0.243
POLY 1.5	P=0.241	P=0.215	P=0.085	P=0.229
POLY 6	P=0.298	P=0.240	P=0.100	P=0.266
LOGISTIC REGRESSION	P=0.268	P=0.229	P=0.116	P=0.256
COCH-ARM / FISHERS	P=0.223	P=0.210	P=0.080	P=0.218
ORDER RESTRICTED	P=0.149	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Clitoral Gland
 Inflammation Chronic**

LESION RATES

OVERALL (a)	0/50 (0%)	1/49 (2%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	0/40.89	1/41.60	1/42.92	3/43.20
POLY-3 PERCENT (g)	0%	2.4%	2.3%	7%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	1/31 (3%)	3/32 (9%)
FIRST INCIDENCE	---	696	730 (T)	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.090	P=0.525	P=0.578	P=0.204
POLY 3	P=0.060	P=0.503	P=0.510	P=0.128
POLY 1.5	P=0.057	P=0.499	P=0.505	P=0.123
POLY 6	P=0.064	P=0.509	P=0.517	P=0.137
LOGISTIC REGRESSION	P=0.070	P=0.501	P=0.578	P=0.204
COCH-ARM / FISHERS	P=0.055	P=0.495	P=0.500	P=0.121
ORDER RESTRICTED	P=0.042*	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Eye: Cornea
 Inflammation

LESION RATES

OVERALL (a)	1/50 (2%)	0/49 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/41.60	0/41.47	0/42.92	1/43.38
POLY-3 PERCENT (g)	2.4%	0%	0%	2.3%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (0%)
FIRST INCIDENCE	485	---	---	683

STATISTICAL TESTS

LIFE TABLE	P=0.608	P=0.500N	P=0.500N	P=0.743N
POLY 3	P=0.601	P=0.501N	P=0.494N	P=0.752N
POLY 1.5	P=0.598	P=0.503N	P=0.497N	P=0.757N
POLY 6	P=0.605	P=0.497N	P=0.488N	P=0.742N
LOGISTIC REGRESSION	P=0.583	P=0.427N	P=0.501N	P=0.757N
COCH-ARM / FISHERS	P=0.596	P=0.505N	P=0.500N	P=0.753N
ORDER RESTRICTED	P=0.390N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Eye: Lens
Cataract

LESION RATES

OVERALL (a)	6/50 (12%)	2/49 (4%)	5/50 (10%)	3/50 (6%)
POLY-3 RATE (b)	6/42.07	2/41.47	5/43.44	3/43.46
POLY-3 PERCENT (g)	14.3%	4.8%	11.5%	6.9%
TERMINAL (d)	2/21 (10%)	2/27 (7%)	3/31 (10%)	2/32 (6%)
FIRST INCIDENCE	485	730 (T)	660	659

STATISTICAL TESTS

LIFE TABLE	P=0.186N	P=0.094N	P=0.349N	P=0.145N
POLY 3	P=0.277N	P=0.136N	P=0.477N	P=0.225N
POLY 1.5	P=0.286N	P=0.140N	P=0.489N	P=0.235N
POLY 6	P=0.260N	P=0.132N	P=0.458N	P=0.208N
LOGISTIC REGRESSION	P=0.282N	P=0.139N	P=0.495N	P=0.241N
COCH-ARM / FISHERS	P=0.295N	P=0.141N	P=0.500N	P=0.243N
ORDER RESTRICTED	P=0.188N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Eye: Retina
Atrophy

LESION RATES

OVERALL (a)	4/50 (8%)	6/49 (12%)	9/50 (18%)	2/50 (4%)
POLY-3 RATE (b)	4/42.04	6/41.55	9/43.65	2/43.20
POLY-3 PERCENT (g)	9.5%	14.4%	20.6%	4.6%
TERMINAL (d)	1/21 (5%)	5/27 (19%)	6/31 (19%)	2/32 (6%)
FIRST INCIDENCE	485	709	660	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.144N	P=0.477	P=0.235	P=0.242N
POLY 3	P=0.250N	P=0.361	P=0.127	P=0.324N
POLY 1.5	P=0.264N	P=0.356	P=0.121	P=0.332N
POLY 6	P=0.227N	P=0.366	P=0.139	P=0.310N
LOGISTIC REGRESSION	P=0.246N	P=0.366	P=0.122	P=0.342N
COCH-ARM / FISHERS	P=0.276N	P=0.357	P=0.117	P=0.339N
ORDER RESTRICTED	P=0.108N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Heart
Cardiomyopathy

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/40.95	2/42.41	2/43.42	0/43.20
POLY-3 PERCENT (g)	2.4%	4.7%	4.6%	0%
TERMINAL (d)	0/21 (0%)	2/27 (7%)	1/31 (3%)	0/32 (0%)
FIRST INCIDENCE	716	730 (T)	579	---

STATISTICAL TESTS

LIFE TABLE	P=0.223N	P=0.566	P=0.569	P=0.466N
POLY 3	P=0.277N	P=0.512	P=0.520	P=0.489N
POLY 1.5	P=0.287N	P=0.505	P=0.511	P=0.495N
POLY 6	P=0.262N	P=0.521	P=0.535	P=0.480N
LOGISTIC REGRESSION	P=0.286N	P=0.545	P=0.497	P=0.475N
COCH-ARM / FISHERS	P=0.296N	P=0.500	P=0.500	P=0.500N
ORDER RESTRICTED	P=0.228N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Heart: Atrium
Thrombosis

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/40.89	2/42.94	2/44.08	1/43.20
POLY-3 PERCENT (g)	0%	4.7%	4.5%	2.3%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	1/32 (3%)
FIRST INCIDENCE	---	591	339	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.510	P=0.250	P=0.243	P=0.584
POLY 3	P=0.498	P=0.248	P=0.254	P=0.511
POLY 1.5	P=0.483	P=0.242	P=0.247	P=0.505
POLY 6	P=0.523	P=0.256	P=0.264	P=0.520
LOGISTIC REGRESSION	P=0.452	P=0.238	P=0.202	P=0.584
COCH-ARM / FISHERS	P=0.469	P=0.247	P=0.247	P=0.500
ORDER RESTRICTED	P=0.240	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Kidney
Infarct

LESION 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	1/43.13	0/43.20
POLY-3 PERCENT (g)	0%	0%	2.3%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	673	---

STATISTICAL TESTS

LIFE TABLE	P=0.713	(e)	P=0.523	(e)
POLY 3	P=0.711	(e)	P=0.511	(e)
POLY 1.5	P=0.702	(e)	P=0.506	(e)
POLY 6	P=0.725	(e)	P=0.519	(e)
LOGISTIC REGRESSION	P=0.693	(e)	P=0.498	(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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Kidney
Nephropathy

LESION RATES

OVERALL (a)	38/50 (76%)	37/50 (74%)	41/50 (82%)	44/50 (88%)
POLY-3 RATE (b)	38/45.54	37/45.19	41/46.72	44/46.90
POLY-3 PERCENT (g)	83.4%	81.9%	87.8%	93.8%
TERMINAL (d)	20/21 (95%)	24/27 (89%)	30/31 (97%)	32/32 (100%)
FIRST INCIDENCE	492	598	516	411

STATISTICAL TESTS

LIFE TABLE	P=0.220N	P=0.133N	P=0.098N	P=0.160N
POLY 3	P=0.035*	P=0.535N	P=0.370	P=0.073
POLY 1.5	P=0.036*	P=0.544N	P=0.339	P=0.072
POLY 6	P=0.040*	P=0.527N	P=0.416	P=0.087
LOGISTIC REGRESSION	P=0.059	P=0.352N	P=0.417	P=0.121
COCH-ARM / FISHERS	P=0.047*	P=0.500N	P=0.312	P=0.096
ORDER RESTRICTED	P=0.051	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

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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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Kidney: Papilla
Mineralization

LESION RATES

OVERALL (a)	6/50 (12%)	3/50 (6%)	4/50 (8%)	6/50 (12%)
POLY-3 RATE (b)	6/41.95	3/42.49	4/43.64	6/43.75
POLY-3 PERCENT (g)	14.3%	7.1%	9.2%	13.7%
TERMINAL (d)	1/21 (5%)	2/27 (7%)	2/31 (7%)	4/32 (13%)
FIRST INCIDENCE	628	709	612	619

STATISTICAL TESTS

LIFE TABLE	P=0.520N	P=0.192N	P=0.274N	P=0.441N
POLY 3	P=0.476	P=0.234N	P=0.344N	P=0.592N
POLY 1.5	P=0.464	P=0.240N	P=0.356N	P=0.607N
POLY 6	P=0.497	P=0.230N	P=0.327N	P=0.568N
LOGISTIC REGRESSION	P=0.468	P=0.229N	P=0.368N	P=0.602N
COCH-ARM / FISHERS	P=0.451	P=0.243N	P=0.370N	P=0.620N
ORDER RESTRICTED	P=0.417N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Kidney: Pelvis, Transitional Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	6/50 (12%)	1/50 (2%)
POLY-3 RATE (b)	1/41.14	1/42.77	6/42.95	1/43.57
POLY-3 PERCENT (g)	2.4%	2.3%	14%	2.3%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	5/31 (16%)	0/32 (0%)
FIRST INCIDENCE	662	628	722	625

STATISTICAL TESTS

LIFE TABLE	P=0.587N	P=0.752N	P=0.130	P=0.746N
POLY 3	P=0.514	P=0.752N	P=0.062	P=0.748N
POLY 1.5	P=0.495	P=0.757N	P=0.059	P=0.755N
POLY 6	P=0.546	P=0.747N	P=0.066	P=0.737N
LOGISTIC REGRESSION	P=0.493	P=0.760N	P=0.077	P=0.759
COCH-ARM / FISHERS	P=0.477	P=0.753N	P=0.056	P=0.753N
ORDER RESTRICTED	P=0.183	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Kidney: Pelvis, Transitional Epithelium
 Mineralization**

LESION RATES

OVERALL (a)	23/50 (46%)	27/50 (54%)	27/50 (54%)	22/50 (44%)
POLY-3 RATE (b)	23/43.60	27/46.19	27/44.86	22/44.66
POLY-3 PERCENT (g)	52.8%	58.5%	60.2%	49.3%
TERMINAL (d)	13/21 (62%)	15/27 (56%)	20/31 (65%)	18/32 (56%)
FIRST INCIDENCE	492	514	611	411

STATISTICAL TESTS

LIFE TABLE	P=0.053N	P=0.550N	P=0.346N	P=0.080N
POLY 3	P=0.347N	P=0.367	P=0.306	P=0.453N
POLY 1.5	P=0.363N	P=0.311	P=0.286	P=0.480N
POLY 6	P=0.322N	P=0.448	P=0.353	P=0.412N
LOGISTIC REGRESSION	P=0.307N	P=0.297	P=0.354	P=0.416N
COCH-ARM / FISHERS	P=0.378N	P=0.274	P=0.274	P=0.500N
ORDER RESTRICTED	P=0.355N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Kidney: Renal Tubule
Cyst

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/40.89	0/42.41	1/43.33	1/43.36
POLY-3 PERCENT (g)	2.5%	0%	2.3%	2.3%
TERMINAL (d)	1/21 (5%)	0/27 (0%)	0/31 (0%)	0/32 (0%)
FIRST INCIDENCE	730 (T)	---	612	688

STATISTICAL TESTS

LIFE TABLE	P=0.589	P=0.450N	P=0.715N	P=0.693N
POLY 3	P=0.551	P=0.493N	P=0.748N	P=0.748N
POLY 1.5	P=0.545	P=0.497N	P=0.754N	P=0.755N
POLY 6	P=0.563	P=0.488N	P=0.738N	P=0.736N
LOGISTIC REGRESSION	P=0.538	(e)	P=0.760	P=0.745N
COCH-ARM / FISHERS	P=0.539	P=0.500N	P=0.753N	P=0.753N
ORDER RESTRICTED	P=0.551	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)

TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Kidney: Renal Tubule Hyperplasia

LESION 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	0/43.20
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Larynx
 Foreign Body

LESION RATES

OVERALL (a)	2/50 (4%)	1/49 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	2/41.53	1/41.47	2/43.02	0/43.20
POLY-3 PERCENT (g)	4.8%	2.4%	4.7%	0%
TERMINAL (d)	0/21 (0%)	1/27 (4%)	1/31 (3%)	0/32 (0%)
FIRST INCIDENCE	547	730 (T)	704	---

STATISTICAL TESTS

LIFE TABLE	P=0.155N	P=0.462N	P=0.627N	P=0.219N
POLY 3	P=0.191N	P=0.500N	P=0.682N	P=0.228N
POLY 1.5	P=0.195N	P=0.505N	P=0.687N	P=0.233N
POLY 6	P=0.183N	P=0.495N	P=0.672N	P=0.220N
LOGISTIC REGRESSION	P=0.196N	P=0.507N	P=0.692	P=0.239N
COCH-ARM / FISHERS	P=0.199N	P=0.508N	P=0.691N	P=0.247N
ORDER RESTRICTED	P=0.148N	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
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 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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Larynx
 Inflammation**

LESION RATES

OVERALL (a)	3/50 (6%)	3/49 (6%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	3/41.30	3/42.01	4/43.02	1/43.56
POLY-3 PERCENT (g)	7.3%	7.1%	9.3%	2.3%
TERMINAL (d)	2/21 (10%)	2/27 (7%)	3/31 (10%)	0/32 (0%)
FIRST INCIDENCE	613	562	704	628

STATISTICAL TESTS

LIFE TABLE	P=0.157N	P=0.578N	P=0.647N	P=0.227N
POLY 3	P=0.224N	P=0.655N	P=0.522	P=0.286N
POLY 1.5	P=0.235N	P=0.660	P=0.512	P=0.296N
POLY 6	P=0.206N	P=0.644N	P=0.539	P=0.270N
LOGISTIC REGRESSION	P=0.237N	P=0.656	P=0.542	P=0.306N
COCH-ARM / FISHERS	P=0.245N	P=0.651	P=0.500	P=0.309N
ORDER RESTRICTED	P=0.233N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Larynx
Inflammation Chronic

LESION RATES

OVERALL (a)	2/50 (4%)	0/49 (0%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	2/41.14	0/41.47	2/43.23	2/43.46
POLY-3 PERCENT (g)	4.9%	0%	4.6%	4.6%
TERMINAL (d)	1/21 (5%)	0/27 (0%)	1/31 (3%)	1/32 (3%)
FIRST INCIDENCE	662	---	645	659

STATISTICAL TESTS

LIFE TABLE	P=0.521	P=0.210N	P=0.618N	P=0.607N
POLY 3	P=0.463	P=0.235N	P=0.677N	P=0.674N
POLY 1.5	P=0.455	P=0.239N	P=0.684N	P=0.685N
POLY 6	P=0.477	P=0.231N	P=0.664N	P=0.658N
LOGISTIC REGRESSION	P=0.455	P=0.236N	P=0.687N	P=0.684N
COCH-ARM / FISHERS	P=0.447	P=0.253N	P=0.691N	P=0.691N
ORDER RESTRICTED	P=0.463	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)

TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Larynx: Epiglottis Metaplasia

LESION 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	0/43.20
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Larynx: Respiratory Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	1/49 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/40.89	1/42.01	0/42.92	1/43.20
POLY-3 PERCENT (g)	0%	2.4%	0%	2.3%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	1/32 (3%)
FIRST INCIDENCE	---	562	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.449	P=0.513	(e)	P=0.584
POLY 3	P=0.423	P=0.505	(e)	P=0.511
POLY 1.5	P=0.415	P=0.500	(e)	P=0.505
POLY 6	P=0.436	P=0.512	(e)	P=0.520
LOGISTIC REGRESSION	P=0.400	P=0.530	(e)	P=0.584
COCH-ARM / FISHERS	P=0.407	P=0.495	(e)	P=0.500
ORDER RESTRICTED	P=0.261	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
Angiectasis

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/40.89	0/42.41	2/42.92	0/43.20
POLY-3 PERCENT (g)	2.5%	0%	4.7%	0%
TERMINAL (d)	1/21 (5%)	0/27 (0%)	2/31 (7%)	0/32 (0%)
FIRST INCIDENCE	730 (T)	---	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.366N	P=0.450N	P=0.635	P=0.416N
POLY 3	P=0.449N	P=0.493N	P=0.517	P=0.489N
POLY 1.5	P=0.455N	P=0.497N	P=0.509	P=0.495N
POLY 6	P=0.439N	P=0.488N	P=0.529	P=0.480N
LOGISTIC REGRESSION	P=0.366N	(e)	P=0.635	(e)
COCH-ARM / FISHERS	P=0.461N	P=0.500N	P=0.500	P=0.500N
ORDER RESTRICTED	P=0.315N	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
 Basophilic Focus

LESION RATES

OVERALL (a)	27/50 (54%)	31/50 (62%)	36/50 (72%)	32/50 (64%)
POLY-3 RATE (b)	27/43.44	31/45.02	36/46.03	32/45.97
POLY-3 PERCENT (g)	62.2%	68.9%	78.2%	69.6%
TERMINAL (d)	17/21 (81%)	22/27 (82%)	28/31 (90%)	23/32 (72%)
FIRST INCIDENCE	519	536	516	542

STATISTICAL TESTS

LIFE TABLE	P=0.206N	P=0.460N	P=0.542N	P=0.266N
POLY 3	P=0.255	P=0.322	P=0.061	P=0.294
POLY 1.5	P=0.205	P=0.286	P=0.054	P=0.240
POLY 6	P=0.357	P=0.362	P=0.069	P=0.390
LOGISTIC REGRESSION	P=0.247	P=0.354	P=0.070	P=0.301
COCH-ARM / FISHERS	P=0.173	P=0.272	P=0.048*	P=0.208
ORDER RESTRICTED	P=0.156	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
Clear Cell Focus

LESION RATES

OVERALL (a)	15/50 (30%)	9/50 (18%)	6/50 (12%)	5/50 (10%)
POLY-3 RATE (b)	15/42.62	9/44.53	6/42.92	5/43.20
POLY-3 PERCENT (g)	35.2%	20.2%	14%	11.6%
TERMINAL (d)	9/21 (43%)	3/27 (11%)	6/31 (19%)	5/32 (16%)
FIRST INCIDENCE	501	562	730 (T)	730 (T)

STATISTICAL TESTS

LIFE TABLE	P<0.001N**	P=0.068N	P=0.003N**	P<0.001N**
POLY 3	P=0.006N**	P=0.089N	P=0.018N*	P=0.008N**
POLY 1.5	P=0.007N**	P=0.105N	P=0.020N*	P=0.009N**
POLY 6	P=0.006N**	P=0.073N	P=0.016N*	P=0.006N**
LOGISTIC REGRESSION	P=0.006N**	P=0.118N	P=0.015N*	P=0.007N**
COCH-ARM / FISHERS	P=0.008N**	P=0.121N	P=0.024N*	P=0.011N*
ORDER RESTRICTED	P=0.003N**	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
 Degeneration Cystic

LESION 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	0/43.20
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
Eosinophilic Focus

LESION 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	1/43.20
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
Hepatodiaphragmatic Nodule

LESION RATES

OVERALL (a)	6/50 (12%)	6/50 (12%)	4/50 (8%)	6/50 (12%)
POLY-3 RATE (b)	6/41.57	6/44.29	4/43.23	6/44.73
POLY-3 PERCENT (g)	14.4%	13.6%	9.3%	13.4%
TERMINAL (d)	5/21 (24%)	2/27 (7%)	3/31 (10%)	2/32 (6%)
FIRST INCIDENCE	501	16	645	542

STATISTICAL TESTS

LIFE TABLE	P=0.366N	P=0.499N	P=0.190N	P=0.421N
POLY 3	P=0.495N	P=0.576N	P=0.344N	P=0.569N
POLY 1.5	P=0.515N	P=0.594N	P=0.357N	P=0.596N
POLY 6	P=0.460N	P=0.553N	P=0.322N	P=0.524N
LOGISTIC REGRESSION	P=0.551N	P=0.614N	P=0.342N	P=0.616
COCH-ARM / FISHERS	P=0.530N	P=0.620N	P=0.370N	P=0.620N
ORDER RESTRICTED	P=0.527N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
Mixed Cell Focus

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/40.89	0/42.41	2/42.92	1/43.33
POLY-3 PERCENT (g)	0%	0%	4.7%	2.3%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	2/31 (7%)	0/32 (0%)
FIRST INCIDENCE	---	---	730 (T)	696

STATISTICAL TESTS

LIFE TABLE	P=0.308	(e)	P=0.327	P=0.531
POLY 3	P=0.263	(e)	P=0.248	P=0.512
POLY 1.5	P=0.254	(e)	P=0.243	P=0.505
POLY 6	P=0.280	(e)	P=0.256	P=0.521
LOGISTIC REGRESSION	P=0.271	(e)	P=0.327	P=0.507
COCH-ARM / FISHERS	P=0.246	(e)	P=0.247	P=0.500
ORDER RESTRICTED	P=0.177	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
Necrosis

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	0/40.89	1/42.54	1/43.54	3/43.46
POLY-3 PERCENT (g)	0%	2.4%	2.3%	6.9%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	1/32 (3%)
FIRST INCIDENCE	---	697	528	696

STATISTICAL TESTS

LIFE TABLE	P=0.070	P=0.519	P=0.513	P=0.169
POLY 3	P=0.059	P=0.508	P=0.513	P=0.130
POLY 1.5	P=0.057	P=0.503	P=0.507	P=0.124
POLY 6	P=0.065	P=0.514	P=0.521	P=0.139
LOGISTIC REGRESSION	P=0.053	P=0.506	P=0.490	P=0.133
COCH-ARM / FISHERS	P=0.054	P=0.500	P=0.500	P=0.121
ORDER RESTRICTED	P=0.043*	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver
Vacuolization Cytoplasmic

LESION RATES

OVERALL (a)	11/50 (22%)	4/50 (8%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	11/44.64	4/43.63	4/44.15	2/43.62
POLY-3 PERCENT (g)	24.6%	9.2%	9.1%	4.6%
TERMINAL (d)	1/21 (5%)	1/27 (4%)	0/31 (0%)	1/32 (3%)
FIRST INCIDENCE	485	562	579	607

STATISTICAL TESTS

LIFE TABLE	P=0.005N**	P=0.043N*	P=0.040N*	P=0.006N**
POLY 3	P=0.006N**	P=0.047N*	P=0.044N*	P=0.007N**
POLY 1.5	P=0.006N**	P=0.047N*	P=0.045N*	P=0.008N**
POLY 6	P=0.006N**	P=0.047N*	P=0.042N*	P=0.007N**
LOGISTIC REGRESSION	P=0.008N**	P=0.042N*	P=0.057N	P=0.009N**
COCH-ARM / FISHERS	P=0.007N**	P=0.045N*	P=0.045N*	P=0.007N**
ORDER RESTRICTED	P<0.001N**	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver: Bile Duct
Hyperplasia

LESION 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	0/43.20
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Liver: Periportal
Inflammation Chronic

LESION 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	0/43.20
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung
Hemorrhage

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	2/41.62	1/42.46	2/42.92	0/43.20
POLY-3 PERCENT (g)	4.8%	2.4%	4.7%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	2/31 (7%)	0/32 (0%)
FIRST INCIDENCE	501	717	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.149N	P=0.464N	P=0.602N	P=0.221N
POLY 3	P=0.193N	P=0.493N	P=0.683N	P=0.229N
POLY 1.5	P=0.197N	P=0.498N	P=0.688N	P=0.234N
POLY 6	P=0.185N	P=0.487N	P=0.674N	P=0.220N
LOGISTIC REGRESSION	P=0.200N	P=0.495N	P=0.690	P=0.233N
COCH-ARM / FISHERS	P=0.200N	P=0.500N	P=0.691N	P=0.247N
ORDER RESTRICTED	P=0.148N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung
Inflammation Chronic

LESION RATES

OVERALL (a)	11/50 (22%)	10/50 (20%)	8/50 (16%)	16/50 (32%)
POLY-3 RATE (b)	11/41.73	10/42.89	8/43.36	16/43.82
POLY-3 PERCENT (g)	26.4%	23.3%	18.5%	36.5%
TERMINAL (d)	7/21 (33%)	8/27 (30%)	6/31 (19%)	13/32 (41%)
FIRST INCIDENCE	618	635	611	619

STATISTICAL TESTS

LIFE TABLE	P=0.391	P=0.297N	P=0.103N	P=0.564
POLY 3	P=0.134	P=0.471N	P=0.268N	P=0.216
POLY 1.5	P=0.126	P=0.489N	P=0.285N	P=0.196
POLY 6	P=0.151	P=0.453N	P=0.245N	P=0.249
LOGISTIC REGRESSION	P=0.181	P=0.428N	P=0.234N	P=0.281
COCH-ARM / FISHERS	P=0.120	P=0.500N	P=0.306N	P=0.184
ORDER RESTRICTED	P=0.106	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung: Alveolar Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	3/50 (6%)	1/50 (2%)	5/50 (10%)	7/50 (14%)
POLY-3 RATE (b)	3/41.50	1/42.41	5/44.23	7/43.20
POLY-3 PERCENT (g)	7.2%	2.4%	11.3%	16.2%
TERMINAL (d)	1/21 (5%)	1/27 (4%)	2/31 (7%)	7/32 (22%)
FIRST INCIDENCE	558	730 (T)	339	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.096	P=0.255N	P=0.483	P=0.337
POLY 3	P=0.041*	P=0.297N	P=0.391	P=0.172
POLY 1.5	P=0.040*	P=0.303N	P=0.377	P=0.164
POLY 6	P=0.045*	P=0.291N	P=0.412	P=0.186
LOGISTIC REGRESSION	P=0.040*	P=0.303N	P=0.327	P=0.197
COCH-ARM / FISHERS	P=0.039*	P=0.309N	P=0.357	P=0.159
ORDER RESTRICTED	P=0.050*	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung: Alveolus
 Infiltration Cellular Histiocyte

LESION RATES

OVERALL (a)	16/50 (32%)	6/50 (12%)	11/50 (22%)	14/50 (28%)
POLY-3 RATE (b)	16/42.59	6/42.41	11/43.29	14/47.18
POLY-3 PERCENT (g)	37.6%	14.2%	25.4%	29.7%
TERMINAL (d)	11/21 (52%)	6/27 (22%)	10/31 (32%)	8/32 (25%)
FIRST INCIDENCE	485	730 (T)	624	267

STATISTICAL TESTS

LIFE TABLE	P=0.297N	P=0.003N**	P=0.027N*	P=0.139N
POLY 3	P=0.514N	P=0.011N*	P=0.159N	P=0.284N
POLY 1.5	P=0.538	P=0.012N*	P=0.171N	P=0.335N
POLY 6	P=0.453N	P=0.009N**	P=0.140N	P=0.224N
LOGISTIC REGRESSION	P=0.472	P=0.009N**	P=0.132N	P=0.440N
COCH-ARM / FISHERS	P=0.466	P=0.014N*	P=0.184N	P=0.414N
ORDER RESTRICTED	P=0.089N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung: Alveolus
Proteinosis

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/40.89	0/42.41	0/42.92	2/43.20
POLY-3 PERCENT (g)	0%	0%	0%	4.6%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	2/32 (6%)
FIRST INCIDENCE	---	---	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.067	(e)	(e)	P=0.335
POLY 3	P=0.047*	(e)	(e)	P=0.249
POLY 1.5	P=0.046*	(e)	(e)	P=0.243
POLY 6	P=0.049*	(e)	(e)	P=0.260
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.335
COCH-ARM / FISHERS	P=0.046*	(e)	(e)	P=0.247
ORDER RESTRICTED	P=0.034*	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung: Artery
Mineralization

LESION 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	0/43.20
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

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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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung: Bronchiole
Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	3/50 (6%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/40.89	3/42.41	0/42.92	1/43.20
POLY-3 PERCENT (g)	0%	7.1%	0%	2.3%
TERMINAL (d)	0/21 (0%)	3/27 (11%)	0/31 (0%)	1/32 (3%)
FIRST INCIDENCE	---	730 (T)	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.525N	P=0.167	(e)	P=0.584
POLY 3	P=0.615N	P=0.125	(e)	P=0.511
POLY 1.5	P=0.625N	P=0.121	(e)	P=0.505
POLY 6	P=0.599N	P=0.129	(e)	P=0.520
LOGISTIC REGRESSION	(e)	P=0.167	(e)	P=0.584
COCH-ARM / FISHERS	P=0.634	P=0.121	(e)	P=0.500
ORDER RESTRICTED	P=0.275	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung: Bronchiole
Inflammation Chronic

LESION RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	1/40.95	1/42.41	0/42.92	3/43.20
POLY-3 PERCENT (g)	2.4%	2.4%	0%	7%
TERMINAL (d)	0/21 (0%)	1/27 (4%)	0/31 (0%)	3/32 (9%)
FIRST INCIDENCE	716	730 (T)	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.236	P=0.724N	P=0.466N	P=0.440
POLY 3	P=0.166	P=0.753N	P=0.491N	P=0.324
POLY 1.5	P=0.163	P=0.758N	P=0.495N	P=0.314
POLY 6	P=0.171	P=0.748N	P=0.484N	P=0.340
LOGISTIC REGRESSION	P=0.205	P=0.739N	P=0.478N	P=0.388
COCH-ARM / FISHERS	P=0.160	P=0.753N	P=0.500N	P=0.309
ORDER RESTRICTED	P=0.112	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lung: Interstitium
 Fibrosis

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/41.28	0/42.41	0/42.92	0/43.20
POLY-3 PERCENT (g)	2.4%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (0%)
FIRST INCIDENCE	618	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.296N	P=0.495N	P=0.495N	P=0.481N
POLY 3	P=0.311N	P=0.495N	P=0.492N	P=0.491N
POLY 1.5	P=0.308N	P=0.498N	P=0.496N	P=0.496N
POLY 6	P=0.316N	P=0.491N	P=0.487N	P=0.483N
LOGISTIC REGRESSION	P=0.311N	P=0.490N	P=0.513N	P=0.499N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.112N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lymph Node, Bronchial
Ectasia

LESION RATES

OVERALL (a)	2/7 (29%)	0/9 (0%)	0/8 (0%)	0/5 (0%)
POLY-3 RATE (b)	2/6.02	0/7.30	0/6.66	0/4.35
POLY-3 PERCENT (g)	33.2%	0%	0%	0%
TERMINAL (d)	1/3 (33%)	0/5 (0%)	0/5 (0%)	0/2 (0%)
FIRST INCIDENCE	485	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.116N	P=0.183N	P=0.183N	P=0.286N
POLY 3	P=0.105N	P=0.168N	P=0.189N	P=0.294N
POLY 1.5	P=0.107N	P=0.164N	P=0.188N	P=0.295N
POLY 6	P=0.099N	P=0.176N	P=0.194N	P=0.301N
LOGISTIC REGRESSION	P=0.159N	P=0.203N	P=0.239N	P=0.415N
COCH-ARM / FISHERS	P=0.123N	P=0.175N	P=0.200N	P=0.318N
ORDER RESTRICTED	P=0.049N*	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)

TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lymph Node, Mandibular Ectasia

LESION RATES

OVERALL (a)	0/4 (0%)	0/1 (0%)	0/1 (0%)	1/4 (25%)
POLY-3 RATE (b)	0/3.57	0/0.72	0/1.00	1/3.58
POLY-3 PERCENT (g)	0%	0%	0%	28%
TERMINAL (d)	0/1 (0%)	0/0 (0%)	0/1 (0%)	1/3 (33%)
FIRST INCIDENCE	---	---	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.450	(e)	(e)	P=0.718
POLY 3	P=0.296	(e)	(e)	P=0.500
POLY 1.5	P=0.294	(e)	(e)	P=0.499
POLY 6	P=0.306	(e)	(e)	P=0.507
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.718
COCH-ARM / FISHERS	P=0.261	(e)	(e)	P=0.500
ORDER RESTRICTED	P=0.119	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

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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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lymph Node, Mediastinal
Hyperplasia Lymphoid

LESION RATES

OVERALL (a)	0/30 (0%)	0/28 (0%)	1/26 (4%)	2/31 (6%)
POLY-3 RATE (b)	0/24.66	0/23.46	1/20.29	2/29.13
POLY-3 PERCENT (g)	0%	0%	4.9%	6.9%
TERMINAL (d)	0/14 (0%)	0/16 (0%)	1/11 (9%)	0/22 (0%)
FIRST INCIDENCE	---	---	730 (T)	400

STATISTICAL TESTS

LIFE TABLE	P=0.095	(e)	P=0.452	P=0.247
POLY 3	P=0.098	(e)	P=0.461	P=0.275
POLY 1.5	P=0.091	(e)	P=0.466	P=0.262
POLY 6	P=0.107	(e)	P=0.453	P=0.290
LOGISTIC REGRESSION	P=0.047*	(e)	P=0.452	P=0.108
COCH-ARM / FISHERS	P=0.079	(e)	P=0.464	P=0.254
ORDER RESTRICTED	P=0.099	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

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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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lymph Node, Mesenteric Hemorrhage

LESION RATES

OVERALL (a)	2/48 (4%)	0/49 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/39.42	0/41.47	0/42.54	0/43.20
POLY-3 PERCENT (g)	5.1%	0%	0%	0%
TERMINAL (d)	0/20 (0%)	0/27 (0%)	0/31 (0%)	0/32 (0%)
FIRST INCIDENCE	660	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.108N	P=0.230N	P=0.227N	P=0.219N
POLY 3	P=0.112N	P=0.225N	P=0.220N	P=0.217N
POLY 1.5	P=0.111N	P=0.230N	P=0.226N	P=0.223N
POLY 6	P=0.114N	P=0.221N	P=0.213N	P=0.208N
LOGISTIC REGRESSION	P=0.113N	P=0.233N	P=0.239N	P=0.231N
COCH-ARM / FISHERS	P=0.112N	P=0.242N	P=0.242N	P=0.237N
ORDER RESTRICTED	P=0.023N*	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
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 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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Lymph Node: Deep Cervical
 Hyperplasia Lymphoid

LESION RATES

OVERALL (a)	0/3 (0%)	0/3 (0%)	0/5 (0%)	0/2 (0%)
POLY-3 RATE (b)	0/2.04	0/2.73	0/3.51	0/1.87
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/1 (0%)	0/1 (0%)	0/1 (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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Mammary Gland
Galactocele

LESION RATES

OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	3/40.89	0/42.41	0/42.92	2/43.20
POLY-3 PERCENT (g)	7.3%	0%	0%	4.6%
TERMINAL (d)	3/21 (14%)	0/27 (0%)	0/31 (0%)	2/32 (6%)
FIRST INCIDENCE	730 (T)	---	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.405N	P=0.079N	P=0.061N	P=0.311N
POLY 3	P=0.534N	P=0.112N	P=0.110N	P=0.475N
POLY 1.5	P=0.531N	P=0.116N	P=0.114N	P=0.488N
POLY 6	P=0.537N	P=0.107N	P=0.103N	P=0.454N
LOGISTIC REGRESSION	P=0.405N	(e)	(e)	P=0.311N
COCH-ARM / FISHERS	P=0.531N	P=0.121N	P=0.121N	P=0.500N
ORDER RESTRICTED	P=0.089N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Mesentery
Necrosis

LESION RATES

OVERALL (a)	18/18 (100%)	16/18 (89%)	17/17 (100%)	8/9 (89%)
POLY-3 RATE (b)	18/18.00	16/17.34	17/17.00	8/8.87
POLY-3 PERCENT (g)	100%	92.3%	100%	90.2%
TERMINAL (d)	9/9 (100%)	12/12 (100%)	10/10 (100%)	5/5 (100%)
FIRST INCIDENCE	374	571	528	625

STATISTICAL TESTS

LIFE TABLE	P=0.070N	P=0.106N	(e)	P=0.052N
POLY 3	P=0.342N	P=0.358N	(e)	P=0.421N
POLY 1.5	P=0.348N	P=0.291N	(e)	P=0.388N
POLY 6	P=0.357N	P=0.479N	(e)	P=0.494N
LOGISTIC REGRESSION	P=0.317N	P=0.151N	(e)	P=0.382N
COCH-ARM / FISHERS	P=0.368N	P=0.243N	(e)	P=0.333N
ORDER RESTRICTED	P=0.184N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose
Foreign Body

LESION RATES

OVERALL (a)	0/50 (0%)	4/48 (8%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	0/40.89	4/41.51	2/42.92	3/43.20
POLY-3 PERCENT (g)	0%	9.6%	4.7%	7%
TERMINAL (d)	0/21 (0%)	2/27 (7%)	2/31 (7%)	3/32 (9%)
FIRST INCIDENCE	---	591	730 (T)	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.354	P=0.091	P=0.327	P=0.204
POLY 3	P=0.258	P=0.061	P=0.248	P=0.128
POLY 1.5	P=0.244	P=0.058	P=0.243	P=0.123
POLY 6	P=0.280	P=0.066	P=0.256	P=0.137
LOGISTIC REGRESSION	P=0.262	P=0.060	P=0.327	P=0.204
COCH-ARM / FISHERS	P=0.232	P=0.054	P=0.247	P=0.121
ORDER RESTRICTED	P=0.114	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Nose
 Inflammation**

LESION RATES

OVERALL (a)	1/50 (2%)	3/48 (6%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/40.89	3/41.46	1/42.92	2/43.20
POLY-3 PERCENT (g)	2.5%	7.2%	2.3%	4.6%
TERMINAL (d)	1/21 (5%)	2/27 (7%)	1/31 (3%)	2/32 (6%)
FIRST INCIDENCE	730 (T)	591	730 (T)	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.551N	P=0.377	P=0.673N	P=0.646
POLY 3	P=0.556	P=0.310	P=0.750N	P=0.519
POLY 1.5	P=0.543	P=0.299	P=0.755N	P=0.509
POLY 6	P=0.577	P=0.323	P=0.742N	P=0.535
LOGISTIC REGRESSION	P=0.561	P=0.300	P=0.673N	P=0.646
COCH-ARM / FISHERS	P=0.531	P=0.293	P=0.753N	P=0.500
ORDER RESTRICTED	P=0.477	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Nose
 Inflammation Chronic**

LESION RATES

OVERALL (a)	1/50 (2%)	3/48 (6%)	5/50 (10%)	1/50 (2%)
POLY-3 RATE (b)	1/40.89	3/41.17	5/44.35	1/43.20
POLY-3 PERCENT (g)	2.5%	7.3%	11.3%	2.3%
TERMINAL (d)	1/21 (5%)	1/27 (4%)	2/31 (7%)	1/32 (3%)
FIRST INCIDENCE	730 (T)	696	516	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.428N	P=0.383	P=0.163	P=0.665N
POLY 3	P=0.503N	P=0.307	P=0.120	P=0.749N
POLY 1.5	P=0.521N	P=0.298	P=0.112	P=0.755N
POLY 6	P=0.474N	P=0.319	P=0.135	P=0.738N
LOGISTIC REGRESSION	P=0.536N	P=0.325	P=0.095	P=0.665N
COCH-ARM / FISHERS	P=0.537N	P=0.293	P=0.102	P=0.753N
ORDER RESTRICTED	P=0.278N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Glands, Respiratory Epithelium
Dilatation

LESION RATES

OVERALL (a)	1/50 (2%)	0/48 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/40.89	0/40.99	0/42.92	0/43.20
POLY-3 PERCENT (g)	2.5%	0%	0%	0%
TERMINAL (d)	1/21 (5%)	0/27 (0%)	0/31 (0%)	0/32 (0%)
FIRST INCIDENCE	730 (T)	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.257N	P=0.450N	P=0.422N	P=0.416N
POLY 3	P=0.312N	P=0.500N	P=0.490N	P=0.489N
POLY 1.5	P=0.308N	P=0.505N	P=0.495N	P=0.495N
POLY 6	P=0.319N	P=0.494N	P=0.483N	P=0.480N
LOGISTIC REGRESSION	P=0.257N	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.304N	P=0.510N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.111N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)

TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Glands, Respiratory Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	0/48 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/40.99	0/42.92	0/43.20
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Nose: Goblet Cell
 Hyperplasia**

LESION RATES

OVERALL (a)	4/50 (8%)	6/48 (13%)	1/50 (2%)	5/50 (10%)
POLY-3 RATE (b)	4/40.89	6/41.92	1/43.29	5/43.20
POLY-3 PERCENT (g)	9.8%	14.3%	2.3%	11.6%
TERMINAL (d)	4/21 (19%)	2/27 (7%)	0/31 (0%)	5/32 (16%)
FIRST INCIDENCE	730 (T)	591	625	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.391N	P=0.493	P=0.098N	P=0.520N
POLY 3	P=0.537N	P=0.384	P=0.161N	P=0.535
POLY 1.5	P=0.550N	P=0.362	P=0.169N	P=0.516
POLY 6	P=0.518N	P=0.415	P=0.148N	P=0.564
LOGISTIC REGRESSION	P=0.524N	P=0.375	P=0.156N	P=0.520N
COCH-ARM / FISHERS	P=0.561N	P=0.344	P=0.181N	P=0.500
ORDER RESTRICTED	P=0.333N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Nasolacrimal Duct
Inflammation

LESION RATES

OVERALL (a)	4/50 (8%)	3/48 (6%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	4/41.83	3/41.32	2/43.13	1/43.79
POLY-3 PERCENT (g)	9.6%	7.3%	4.6%	2.3%
TERMINAL (d)	2/21 (10%)	1/27 (4%)	1/31 (3%)	0/32 (0%)
FIRST INCIDENCE	485	663	673	542

STATISTICAL TESTS

LIFE TABLE	P=0.078N	P=0.425N	P=0.243N	P=0.130N
POLY 3	P=0.103N	P=0.507N	P=0.322N	P=0.164N
POLY 1.5	P=0.108N	P=0.517N	P=0.330N	P=0.172N
POLY 6	P=0.096N	P=0.493N	P=0.309N	P=0.152N
LOGISTIC REGRESSION	P=0.115N	P=0.523N	P=0.344N	P=0.182N
COCH-ARM / FISHERS	P=0.111N	P=0.523N	P=0.339N	P=0.181N
ORDER RESTRICTED	P=0.115N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Nasolacrimal Duct, Epithelium
Metaplasia

LESION RATES

OVERALL (a)	0/50 (0%)	0/48 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/40.99	0/42.92	0/43.20
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Olfactory Epithelium
Degeneration Hyaline

LESION RATES

OVERALL (a)	2/50 (4%)	1/48 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/40.95	1/40.99	0/42.92	0/43.20
POLY-3 PERCENT (g)	4.9%	2.4%	0%	0%
TERMINAL (d)	1/21 (5%)	1/27 (4%)	0/31 (0%)	0/32 (0%)
FIRST INCIDENCE	716	730 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.070N	P=0.438N	P=0.181N	P=0.177N
POLY 3	P=0.098N	P=0.500N	P=0.226N	P=0.225N
POLY 1.5	P=0.099N	P=0.508N	P=0.231N	P=0.232N
POLY 6	P=0.097N	P=0.490N	P=0.219N	P=0.215N
LOGISTIC REGRESSION	P=0.079N	P=0.463N	P=0.201N	P=0.196N
COCH-ARM / FISHERS	P=0.100N	P=0.515N	P=0.247N	P=0.247N
ORDER RESTRICTED	P=0.066N	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Nose: Olfactory Epithelium
 Hyperplasia Basal Cell**

LESION RATES

OVERALL (a)	0/50 (0%)	14/48 (29%)	25/50 (50%)	31/50 (62%)
POLY-3 RATE (b)	0/40.89	14/41.74	25/44.77	31/44.35
POLY-3 PERCENT (g)	0%	33.5%	55.8%	69.9%
TERMINAL (d)	0/21 (0%)	10/27 (37%)	16/31 (52%)	26/32 (81%)
FIRST INCIDENCE	---	655	579	625

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Olfactory Epithelium
Metaplasia

LESION RATES

OVERALL (a)	0/50 (0%)	1/48 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/40.89	1/41.12	0/42.92	2/43.46
POLY-3 PERCENT (g)	0%	2.4%	0%	4.6%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	1/32 (3%)
FIRST INCIDENCE	---	696	---	659

STATISTICAL TESTS

LIFE TABLE	P=0.169	P=0.525	(e)	P=0.292
POLY 3	P=0.152	P=0.501	(e)	P=0.251
POLY 1.5	P=0.147	P=0.496	(e)	P=0.244
POLY 6	P=0.159	P=0.508	(e)	P=0.263
LOGISTIC REGRESSION	P=0.146	P=0.498	(e)	P=0.243
COCH-ARM / FISHERS	P=0.143	P=0.490	(e)	P=0.247
ORDER RESTRICTED	P=0.083	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Olfactory Epithelium
 Ulcer

LESION RATES

OVERALL (a)	0/50 (0%)	0/48 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/40.99	0/42.92	0/43.20
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006
 Time Report Reqsted: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Nose: Respiratory Epithelium
 Degeneration Hyaline**

LESION RATES

OVERALL (a)	1/50 (2%)	0/48 (0%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	1/40.95	0/40.99	3/42.92	0/43.20
POLY-3 PERCENT (g)	2.4%	0%	7%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	3/31 (10%)	0/32 (0%)
FIRST INCIDENCE	716	---	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.403N	P=0.493N	P=0.431	P=0.466N
POLY 3	P=0.480N	P=0.500N	P=0.322	P=0.489N
POLY 1.5	P=0.488N	P=0.505N	P=0.314	P=0.495N
POLY 6	P=0.466N	P=0.494N	P=0.334	P=0.480N
LOGISTIC REGRESSION	P=0.437N	P=0.490N	P=0.381	P=0.475N
COCH-ARM / FISHERS	P=0.496N	P=0.510N	P=0.309	P=0.500N
ORDER RESTRICTED	P=0.263N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006

Time Report Requested: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Respiratory Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	0/48 (0%)	4/50 (8%)	6/50 (12%)
POLY-3 RATE (b)	0/40.89	0/40.99	4/43.56	6/43.46
POLY-3 PERCENT (g)	0%	0%	9.2%	13.8%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	3/31 (10%)	5/32 (16%)
FIRST INCIDENCE	---	---	516	659

STATISTICAL TESTS

LIFE TABLE	P=0.004**	(e)	P=0.109	P=0.045*
POLY 3	P=0.002**	(e)	P=0.068	P=0.018*
POLY 1.5	P<0.001**	(e)	P=0.065	P=0.017*
POLY 6	P=0.002**	(e)	P=0.074	P=0.021*
LOGISTIC REGRESSION	P=0.002**	(e)	P=0.062	P=0.025*
COCH-ARM / FISHERS	P=0.002**	(e)	P=0.059	P=0.013*
ORDER RESTRICTED	P=0.004**	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)

TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Nose: Respiratory Epithelium
Inflammation Chronic

LESION RATES

OVERALL (a)	0/50 (0%)	0/48 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/40.99	0/42.92	0/43.20
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Ovary
 Cyst

LESION RATES

OVERALL (a)	3/50 (6%)	7/49 (14%)	8/50 (16%)	6/50 (12%)
POLY-3 RATE (b)	3/40.97	7/42.33	8/43.45	6/43.41
POLY-3 PERCENT (g)	7.3%	16.5%	18.4%	13.8%
TERMINAL (d)	2/21 (10%)	3/27 (11%)	5/31 (16%)	5/32 (16%)
FIRST INCIDENCE	710	635	625	674

STATISTICAL TESTS

LIFE TABLE	P=0.486	P=0.243	P=0.225	P=0.444
POLY 3	P=0.324	P=0.168	P=0.115	P=0.270
POLY 1.5	P=0.302	P=0.157	P=0.108	P=0.255
POLY 6	P=0.361	P=0.185	P=0.130	P=0.295
LOGISTIC REGRESSION	P=0.338	P=0.167	P=0.130	P=0.326
COCH-ARM / FISHERS	P=0.283	P=0.151	P=0.100	P=0.243
ORDER RESTRICTED	P=0.186	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Pancreas: Acinus
 Atrophy**

LESION 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	0/43.20
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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Date Report Requested: 01/12/2006
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Pancreas: Acinus
 Hyperplasia

LESION 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	0/43.20
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Pituitary Gland
Cyst

LESION RATES

OVERALL (a)	7/50 (14%)	2/50 (4%)	2/50 (4%)	2/49 (4%)
POLY-3 RATE (b)	7/42.40	2/43.02	2/42.92	2/42.80
POLY-3 PERCENT (g)	16.5%	4.7%	4.7%	4.7%
TERMINAL (d)	3/21 (14%)	1/27 (4%)	2/31 (7%)	0/32 (0%)
FIRST INCIDENCE	519	536	730 (T)	638

STATISTICAL TESTS

LIFE TABLE	P=0.040N*	P=0.058N	P=0.040N*	P=0.050N*
POLY 3	P=0.064N	P=0.074N	P=0.074N	P=0.075N
POLY 1.5	P=0.066N	P=0.077N	P=0.077N	P=0.080N
POLY 6	P=0.060N	P=0.070N	P=0.070N	P=0.066N
LOGISTIC REGRESSION	P=0.071N	P=0.080N	P=0.081N	P=0.089N
COCH-ARM / FISHERS	P=0.069N	P=0.080N	P=0.080N	P=0.085N
ORDER RESTRICTED	P=0.025N*	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Pituitary Gland
 Hemorrhage**

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)	2/50 (4%)	0/49 (0%)
POLY-3 RATE (b)	2/41.13	2/42.92	2/43.68	0/42.33
POLY-3 PERCENT (g)	4.9%	4.7%	4.6%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (0%)
FIRST INCIDENCE	688	660	579	---

STATISTICAL TESTS

LIFE TABLE	P=0.149N	P=0.668N	P=0.660N	P=0.206N
POLY 3	P=0.157N	P=0.679N	P=0.673N	P=0.230N
POLY 1.5	P=0.163N	P=0.687N	P=0.682N	P=0.237N
POLY 6	P=0.148N	P=0.669N	P=0.658N	P=0.221N
LOGISTIC REGRESSION	P=0.171N	P=0.694N	P=0.685	P=0.231N
COCH-ARM / FISHERS	P=0.167N	P=0.691N	P=0.691N	P=0.253N
ORDER RESTRICTED	P=0.182N	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
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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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Pituitary Gland
 Hyperplasia**

LESION RATES

OVERALL (a)	10/50 (20%)	13/50 (26%)	6/50 (12%)	16/49 (33%)
POLY-3 RATE (b)	10/43.66	13/44.17	6/43.13	16/45.28
POLY-3 PERCENT (g)	22.9%	29.4%	13.9%	35.3%
TERMINAL (d)	4/21 (19%)	9/27 (33%)	5/31 (16%)	10/32 (31%)
FIRST INCIDENCE	374	514	673	400

STATISTICAL TESTS

LIFE TABLE	P=0.374	P=0.486	P=0.094N	P=0.357
POLY 3	P=0.151	P=0.324	P=0.210N	P=0.143
POLY 1.5	P=0.138	P=0.313	P=0.211N	P=0.126
POLY 6	P=0.177	P=0.341	P=0.200N	P=0.175
LOGISTIC REGRESSION	P=0.125	P=0.315	P=0.220N	P=0.096
COCH-ARM / FISHERS	P=0.131	P=0.318	P=0.207N	P=0.115
ORDER RESTRICTED	P=0.109	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Pleura
Inflammation Chronic

LESION RATES

OVERALL (a)	15/15 (100%)	15/16 (94%)	14/16 (88%)	20/20 (100%)
POLY-3 RATE (b)	15/15.00	15/16.00	14/14.84	20/20.00
POLY-3 PERCENT (g)	100%	93.8%	94.3%	100%
TERMINAL (d)	9/9 (100%)	11/12 (92%)	11/11 (100%)	14/14 (100%)
FIRST INCIDENCE	547	635	516	411

STATISTICAL TESTS

LIFE TABLE	P=0.530	P=0.252N	P=0.195N	(e)
POLY 3	P=0.535	P=0.513N	P=0.581N	(e)
POLY 1.5	P=0.538	P=0.513N	P=0.426N	(e)
POLY 6	P=0.533	P=0.513N	P=0.779N	(e)
LOGISTIC REGRESSION	P=0.422	(e)	P=0.490N	(e)
COCH-ARM / FISHERS	P=0.541	P=0.516N	P=0.258N	(e)
ORDER RESTRICTED	P=0.349	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Skin
Cyst Epithelial Inclusion

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	1/42.41	0/42.92	0/43.20
POLY-3 PERCENT (g)	0%	2.4%	0%	0%
TERMINAL (d)	0/21 (0%)	1/27 (4%)	0/31 (0%)	0/32 (0%)
FIRST INCIDENCE	---	730 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.512N	P=0.550	(e)	(e)
POLY 3	P=0.558N	P=0.507	(e)	(e)
POLY 1.5	P=0.563N	P=0.503	(e)	(e)
POLY 6	P=0.552N	P=0.512	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.550	(e)	(e)
COCH-ARM / FISHERS	P=0.567N	P=0.500	(e)	(e)
ORDER RESTRICTED	P=0.378N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Skin
Ulcer

LESION RATES

OVERALL (a)	0/50 (0%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/40.89	3/42.86	0/42.92	2/43.30
POLY-3 PERCENT (g)	0%	7%	0%	4.6%
TERMINAL (d)	0/21 (0%)	1/27 (4%)	0/31 (0%)	1/32 (3%)
FIRST INCIDENCE	---	628	---	704

STATISTICAL TESTS

LIFE TABLE	P=0.418	P=0.146	(e)	P=0.301
POLY 3	P=0.375	P=0.127	(e)	P=0.250
POLY 1.5	P=0.362	P=0.122	(e)	P=0.243
POLY 6	P=0.395	P=0.133	(e)	P=0.261
LOGISTIC REGRESSION	P=0.363	P=0.122	(e)	P=0.265
COCH-ARM / FISHERS	P=0.351	P=0.121	(e)	P=0.247
ORDER RESTRICTED	P=0.162	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)

TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Spleen
Fibrosis

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	0/40.89	0/42.41	3/43.45	0/43.20
POLY-3 PERCENT (g)	0%	0%	6.9%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	1/31 (3%)	0/32 (0%)
FIRST INCIDENCE	---	---	625	---

STATISTICAL TESTS

LIFE TABLE	P=0.589	(e)	P=0.159	(e)
POLY 3	P=0.566	(e)	P=0.129	(e)
POLY 1.5	P=0.552	(e)	P=0.124	(e)
POLY 6	P=0.590	(e)	P=0.138	(e)
LOGISTIC REGRESSION	P=0.540	(e)	P=0.120	(e)
COCH-ARM / FISHERS	P=0.539	(e)	P=0.121	(e)
ORDER RESTRICTED	P=0.173	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Spleen
Hematopoietic Cell Proliferation

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	0/40.89	1/42.41	2/44.04	2/43.73
POLY-3 PERCENT (g)	0%	2.4%	4.5%	4.6%
TERMINAL (d)	0/21 (0%)	1/27 (4%)	0/31 (0%)	0/32 (0%)
FIRST INCIDENCE	---	730 (T)	528	607

STATISTICAL TESTS

LIFE TABLE	P=0.192	P=0.550	P=0.252	P=0.264
POLY 3	P=0.179	P=0.507	P=0.254	P=0.252
POLY 1.5	P=0.170	P=0.503	P=0.246	P=0.244
POLY 6	P=0.196	P=0.512	P=0.265	P=0.265
LOGISTIC REGRESSION	P=0.150	P=0.550	P=0.212	P=0.234
COCH-ARM / FISHERS	P=0.160	P=0.500	P=0.247	P=0.247
ORDER RESTRICTED	P=0.167	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Spleen
Hemorrhage

LESION 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	0/43.20
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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Spleen
Necrosis

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/40.89	0/42.41	0/42.92	2/43.33
POLY-3 PERCENT (g)	0%	0%	0%	4.6%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	1/32 (3%)
FIRST INCIDENCE	---	---	---	696

STATISTICAL TESTS

LIFE TABLE	P=0.061	(e)	(e)	P=0.304
POLY 3	P=0.047*	(e)	(e)	P=0.250
POLY 1.5	P=0.046*	(e)	(e)	P=0.243
POLY 6	P=0.049*	(e)	(e)	P=0.261
LOGISTIC REGRESSION	P=0.051	(e)	(e)	P=0.260
COCH-ARM / FISHERS	P=0.046*	(e)	(e)	P=0.247
ORDER RESTRICTED	P=0.034*	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

Date Report Reqsted: 01/12/2006

Time Report Reqsted: 9:51:30

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

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Stomach, Forestomach
Inflammation

LESION 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	1/44.15
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	---	267

STATISTICAL TESTS

LIFE TABLE	P=0.200	(e)	(e)	P=0.500
POLY 3	P=0.208	(e)	(e)	P=0.515
POLY 1.5	P=0.204	(e)	(e)	P=0.508
POLY 6	P=0.213	(e)	(e)	P=0.525
LOGISTIC REGRESSION	P=0.106	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
ORDER RESTRICTED	P=0.135	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Stomach, Forestomach
Ulcer

LESION RATES

OVERALL (a)	5/50 (10%)	4/50 (8%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	5/42.94	4/43.74	3/43.62	1/44.15
POLY-3 PERCENT (g)	11.6%	9.1%	6.9%	2.3%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (0%)
FIRST INCIDENCE	374	562	612	267

STATISTICAL TESTS

LIFE TABLE	P=0.056N	P=0.468N	P=0.305N	P=0.092N
POLY 3	P=0.062N	P=0.488N	P=0.347N	P=0.094N
POLY 1.5	P=0.064N	P=0.499N	P=0.353N	P=0.098N
POLY 6	P=0.058N	P=0.474N	P=0.334N	P=0.088N
LOGISTIC REGRESSION	P=0.068N	P=0.479N	P=0.397N	P=0.069N
COCH-ARM / FISHERS	P=0.066N	P=0.500N	P=0.357N	P=0.102N
ORDER RESTRICTED	P=0.071N	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Stomach, Forestomach: Epithelium
 Hyperplasia**

LESION RATES

OVERALL (a)	11/50 (22%)	13/50 (26%)	12/50 (24%)	8/50 (16%)
POLY-3 RATE (b)	11/43.43	13/46.54	12/44.82	8/44.36
POLY-3 PERCENT (g)	25.3%	27.9%	26.8%	18%
TERMINAL (d)	3/21 (14%)	3/27 (11%)	5/31 (16%)	5/32 (16%)
FIRST INCIDENCE	492	16	530	411

STATISTICAL TESTS

LIFE TABLE	P=0.110N	P=0.517	P=0.471N	P=0.156N
POLY 3	P=0.202N	P=0.484	P=0.535	P=0.283N
POLY 1.5	P=0.208N	P=0.453	P=0.518	P=0.296N
POLY 6	P=0.192N	P=0.525	P=0.565	P=0.266N
LOGISTIC REGRESSION	P=0.229N	P=0.373	P=0.487	P=0.315N
COCH-ARM / FISHERS	P=0.210N	P=0.408	P=0.500	P=0.306N
ORDER RESTRICTED	P=0.277N	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
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Date Report Reqsted: 01/12/2006
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Stomach, Glandular
 Erosion**

LESION RATES

OVERALL (a)	1/50 (2%)	0/49 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/40.95	0/41.47	0/42.92	0/43.20
POLY-3 PERCENT (g)	2.4%	0%	0%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (0%)
FIRST INCIDENCE	716	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.283N	P=0.493N	P=0.466N	P=0.466N
POLY 3	P=0.312N	P=0.497N	P=0.491N	P=0.489N
POLY 1.5	P=0.308N	P=0.501N	P=0.495N	P=0.495N
POLY 6	P=0.317N	P=0.493N	P=0.484N	P=0.480N
LOGISTIC REGRESSION	P=0.290N	P=0.489N	P=0.478N	P=0.475N
COCH-ARM / FISHERS	P=0.305N	P=0.505N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.111N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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 NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Stomach, Glandular
Ulcer

LESION 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	1/42.98	0/43.20
POLY-3 PERCENT (g)	0%	0%	2.3%	0%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (0%)
FIRST INCIDENCE	---	---	715	---

STATISTICAL TESTS

LIFE TABLE	P=0.717	(e)	P=0.540	(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	P=0.709	(e)	P=0.521	(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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
 CAS Number: 98-82-8
 Pathologist: PIERCE, J. - RENNE, R.

Date Report Requested: 01/12/2006
 Time Report Requested: 9:51:30
 First Dose M/F: 06/04/01 / 06/04/01
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

**Thyroid Gland: C-Cell
 Hyperplasia**

LESION RATES

OVERALL (a)	13/50 (26%)	13/49 (27%)	15/50 (30%)	15/50 (30%)
POLY-3 RATE (b)	13/41.70	13/42.64	15/44.19	15/44.12
POLY-3 PERCENT (g)	31.2%	30.5%	33.9%	34%
TERMINAL (d)	9/21 (43%)	9/27 (33%)	12/31 (39%)	12/32 (38%)
FIRST INCIDENCE	618	598	339	619

STATISTICAL TESTS

LIFE TABLE	P=0.360N	P=0.369N	P=0.378N	P=0.344N
POLY 3	P=0.402	P=0.567N	P=0.483	P=0.481
POLY 1.5	P=0.372	P=0.590	P=0.454	P=0.444
POLY 6	P=0.453	P=0.533N	P=0.522	P=0.539
LOGISTIC REGRESSION	P=0.419	P=0.553N	P=0.482	P=0.538
COCH-ARM / FISHERS	P=0.343	P=0.567	P=0.412	P=0.412
ORDER RESTRICTED	P=0.588	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 CUMENE
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 Pathologist: PIERCE, J. - RENNE, R.

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Tongue: Epithelium
 Hyperplasia

LESION RATES

OVERALL (a)	1/1 (100%)	2/2 (100%)	2/2 (100%)	3/3 (100%)
POLY-3 RATE (b)	1/1.00	2/2.00	2/2.00	3/3.00
POLY-3 PERCENT (g)	100%	100%	100%	100%
TERMINAL (d)	1/1 (100%)	2/2 (100%)	2/2 (100%)	2/2 (100%)
FIRST INCIDENCE	730 (T)	730 (T)	730 (T)	625

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)

TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Tooth: Peridental Tissue Inflammation

LESION RATES

OVERALL (a)	0/0 (0%)	2/2 (100%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	2/2.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	100%	0%	0%
TERMINAL (d)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	702	---	---

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Urinary Bladder: Transitional Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	1/50 (2%)	2/49 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/40.92	2/41.76	2/43.64	1/43.56
POLY-3 PERCENT (g)	2.4%	4.8%	4.6%	2.3%
TERMINAL (d)	0/21 (0%)	0/27 (0%)	0/31 (0%)	0/32 (0%)
FIRST INCIDENCE	722	688	612	628

STATISTICAL TESTS

LIFE TABLE	P=0.512N	P=0.548	P=0.551	P=0.714N
POLY 3	P=0.528N	P=0.507	P=0.522	P=0.747N
POLY 1.5	P=0.541N	P=0.499	P=0.512	P=0.754N
POLY 6	P=0.508N	P=0.518	P=0.539	P=0.735N
LOGISTIC REGRESSION	P=0.559N	P=0.507	P=0.489	P=0.762
COCH-ARM / FISHERS	P=0.553N	P=0.492	P=0.500	P=0.753N
ORDER RESTRICTED	P=0.535N	(e)	(e)	(e)

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

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Uterus
 Hemorrhage

LESION RATES

OVERALL (a)	1/50 (2%)	1/49 (2%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	1/40.89	1/41.47	4/44.30	1/43.59
POLY-3 PERCENT (g)	2.5%	2.4%	9%	2.3%
TERMINAL (d)	1/21 (5%)	1/27 (4%)	1/31 (3%)	0/32 (0%)
FIRST INCIDENCE	730 (T)	730 (T)	528	618

STATISTICAL TESTS

LIFE TABLE	P=0.599	P=0.706N	P=0.242	P=0.703N
POLY 3	P=0.564	P=0.758N	P=0.203	P=0.747N
POLY 1.5	P=0.546	P=0.759	P=0.192	P=0.754N
POLY 6	P=0.594	P=0.753N	P=0.221	P=0.734N
LOGISTIC REGRESSION	P=0.519	P=0.706N	P=0.164	P=0.761
COCH-ARM / FISHERS	P=0.529	P=0.747	P=0.181	P=0.753N
ORDER RESTRICTED	P=0.359	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	250 PPM	500 PPM	1000 PPM

Uterus: Endometrium
Hyperplasia

LESION RATES

OVERALL (a)	4/50 (8%)	7/49 (14%)	2/50 (4%)	5/50 (10%)
POLY-3 RATE (b)	4/40.95	7/42.12	2/42.92	5/43.20
POLY-3 PERCENT (g)	9.8%	16.6%	4.7%	11.6%
TERMINAL (d)	3/21 (14%)	4/27 (15%)	2/31 (7%)	5/32 (16%)
FIRST INCIDENCE	716	591	730 (T)	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.324N	P=0.382	P=0.190N	P=0.537N
POLY 3	P=0.499N	P=0.275	P=0.315N	P=0.534
POLY 1.5	P=0.514N	P=0.260	P=0.325N	P=0.516
POLY 6	P=0.474N	P=0.295	P=0.299N	P=0.562
LOGISTIC REGRESSION	P=0.444N	P=0.283	P=0.227N	P=0.609N
COCH-ARM / FISHERS	P=0.529N	P=0.251	P=0.339N	P=0.500
ORDER RESTRICTED	P=0.356N	(e)	(e)	(e)

TDMS No. 96011-05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

CUMENE

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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 ***