

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

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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Species/Strain: RATS/F 344

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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 |

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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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 |

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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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 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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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 |

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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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: 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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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: 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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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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Species/Strain: RATS/F 344

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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) |

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 |

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) |

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 |

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 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: 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 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: 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

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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 |

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.

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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 |

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

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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 |

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 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 |

**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 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
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 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
 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 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
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 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
 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 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
 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 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 |

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 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 |

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.

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: 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

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 |

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

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 |

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

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 |

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

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, 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

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, 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

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, 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

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: 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

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 |

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

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 |

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
 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
 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
 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
 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 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
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 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
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.

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
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

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
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 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 |

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

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
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

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 |

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

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 |

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.

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
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

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
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 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
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
 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 |

**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

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: 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
 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 |

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 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 |

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

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 |

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 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 |

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 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
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 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
 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

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
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

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: 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
 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
 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

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 |

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

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 |

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

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 |

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

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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
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 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: 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.

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
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.

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: 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

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 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

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, 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

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, 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
 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: 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

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 |

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

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 |

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 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**

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.

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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 |

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 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
 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 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
 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 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
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
 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 |

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
 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 |

**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
 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 |

**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

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 |

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
 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 |

**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

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 |

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

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 |

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

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 |

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

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
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

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 |

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

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 |

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

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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 |

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.

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
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
 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 |

**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
 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, 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 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, 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
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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 |

**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
 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 |

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.

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 |

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

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 |

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
 CUMENE
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 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 |

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

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 |

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

CAS Number: 98-82-8

Pathologist: PIERCE, J. - RENNE, R.

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Lab: BNW

LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
 - (b) Number of tumor-bearing animals/Poly-3 number
 - (d) Observed incidence at terminal kill.
 - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group. The life table analysis regards tumors in animals dying prior to terminal kill as being (directly or indirectly) the cause of death.
 - (e) Value of Statistic cannot be computed.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (I) Interim sacrifice
 - (T) Terminal sacrifice
 - # Tumor rates based on numbers of animals necropsied.
 - * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
 - ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
 - N Indicates a negative trend for all tests
- Logistic regression is an alternative method for analyzing the incidence of non-fatal tumors.
The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***