

Experiment Number: 96011-03
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Cumene
CAS Number: 98-82-8

Date Report Requested: 10/16/2014
Time Report Requested: 15:08:53
First Dose M/F: NA / NA
Lab: BNW

| | |
|-----------------------------|------------|
| C Number: | C96011 |
| Lock Date: | 02/05/2001 |
| Cage Range: | All |
| Date Range: | All |
| Reasons For Removal: | All |
| Removal Date Range: | All |
| Treatment Groups: | All |
| Study Gender: | Both |
| PWG Approval Date | NONE |

Experiment Number: 96011-03

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: Cumene

Time Report Requested: 15:08:53

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 98-82-8

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

| F 344/N Rat MALE | CONTROL | 62.5 PPM | 125 PPM | 250 PPM | 500 PPM | 1000 PPM |
|----------------------------------|---------|----------|---------|---------|---------|----------|
| Disposition Summary | | | | | | |
| Animals Initially In Study | 10 | 10 | 10 | 10 | 10 | 10 |
| Early Deaths | | | | | | |
| Survivors | | | | | | |
| Terminal Sacrifice | 10 | 10 | 10 | 10 | 10 | 10 |
| Animals Examined Microscopically | 10 | 10 | 10 | 10 | 10 | 10 |
| ALIMENTARY SYSTEM | | | | | | |
| Esophagus | (10) | (0) | (0) | (0) | (0) | (10) |
| Intestine Large, Cecum | (10) | (0) | (0) | (0) | (0) | (10) |
| Intestine Large, Colon | (10) | (0) | (0) | (0) | (0) | (10) |
| Intestine Large, Rectum | (10) | (0) | (0) | (0) | (0) | (10) |
| Intestine Small, Duodenum | (10) | (0) | (0) | (0) | (0) | (10) |
| Intestine Small, Ileum | (10) | (0) | (0) | (0) | (0) | (10) |
| Intestine Small, Jejunum | (10) | (0) | (0) | (0) | (0) | (10) |
| Liver | (10) | (0) | (0) | (1) | (0) | (10) |
| Mesentery | (0) | (0) | (0) | (0) | (1) | (0) |
| Pancreas | (10) | (0) | (0) | (0) | (0) | (10) |
| Salivary Glands | (10) | (0) | (0) | (0) | (0) | (10) |
| Stomach, Forestomach | (10) | (0) | (0) | (0) | (0) | (10) |
| Stomach, Glandular | (10) | (0) | (0) | (0) | (0) | (10) |
| CARDIOVASCULAR SYSTEM | | | | | | |
| Blood Vessel | (9) | (0) | (0) | (0) | (0) | (8) |
| Heart | (10) | (0) | (0) | (0) | (0) | (10) |
| ENDOCRINE SYSTEM | | | | | | |
| Adrenal Cortex | (10) | (0) | (0) | (0) | (0) | (10) |
| Adrenal Medulla | (10) | (0) | (0) | (0) | (0) | (10) |

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 96011-03

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: Cumene

Time Report Requested: 15:08:53

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 98-82-8

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

| F 344/N Rat MALE | CONTROL | 62.5 PPM | 125 PPM | 250 PPM | 500 PPM | 1000 PPM |
|-------------------------|---------|----------|---------|---------|---------|----------|
| Islets, Pancreatic | (10) | (0) | (0) | (0) | (0) | (10) |
| Parathyroid Gland | (10) | (0) | (0) | (0) | (0) | (9) |
| Pituitary Gland | (10) | (0) | (0) | (0) | (0) | (10) |
| Thyroid Gland | (10) | (0) | (0) | (0) | (0) | (10) |
| GENERAL BODY SYSTEM | | | | | | |
| None | | | | | | |
| GENITAL SYSTEM | | | | | | |
| Epididymis | (10) | (0) | (0) | (0) | (0) | (10) |
| Preputial Gland | (10) | (0) | (0) | (0) | (0) | (10) |
| Prostate | (10) | (0) | (0) | (0) | (0) | (10) |
| Seminal Vesicle | (10) | (0) | (0) | (0) | (0) | (10) |
| Testes | (10) | (0) | (0) | (0) | (0) | (10) |
| HEMATOPOIETIC SYSTEM | | | | | | |
| Bone Marrow | (10) | (0) | (0) | (0) | (0) | (10) |
| Lymph Node, Bronchial | (1) | (0) | (0) | (0) | (0) | (1) |
| Lymph Node, Mediastinal | (10) | (0) | (0) | (0) | (0) | (10) |
| Lymph Node, Mesenteric | (10) | (0) | (0) | (0) | (0) | (10) |
| Spleen | (10) | (0) | (0) | (0) | (0) | (10) |
| Thymus | (10) | (0) | (0) | (0) | (0) | (10) |
| INTEGUMENTARY SYSTEM | | | | | | |
| Mammary Gland | (10) | (0) | (0) | (0) | (0) | (10) |
| Skin | (10) | (0) | (0) | (0) | (0) | (10) |
| MUSCULOSKELETAL SYSTEM | | | | | | |
| Bone | (10) | (0) | (0) | (0) | (0) | (10) |
| NERVOUS SYSTEM | | | | | | |
| Brain | (10) | (0) | (0) | (0) | (0) | (10) |

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 96011-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Cumene

CAS Number: 98-82-8

Date Report Requested: 10/16/2014

Time Report Requested: 15:08:53

First Dose M/F: NA / NA

Lab: BNW

| F 344/N Rat MALE | CONTROL | 62.5 PPM | 125 PPM | 250 PPM | 500 PPM | 1000 PPM |
|-----------------------|---------|----------|---------|---------|---------|----------|
| RESPIRATORY SYSTEM | | | | | | |
| Larynx | (10) | (0) | (0) | (0) | (0) | (10) |
| Lung | (10) | (0) | (0) | (0) | (0) | (10) |
| Nose | (10) | (0) | (0) | (0) | (0) | (10) |
| Pleura | (10) | (0) | (0) | (0) | (0) | (10) |
| Trachea | (10) | (0) | (0) | (0) | (0) | (10) |
| SPECIAL SENSES SYSTEM | | | | | | |
| Eye | (10) | (0) | (0) | (0) | (0) | (10) |
| Harderian Gland | (10) | (0) | (0) | (0) | (0) | (10) |
| URINARY SYSTEM | | | | | | |
| Kidney | (10) | (10) | (10) | (10) | (10) | (10) |
| Urinary Bladder | (10) | (0) | (1) | (0) | (0) | (10) |

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 96011-03
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
Test Compound: Cumene
CAS Number: 98-82-8

Date Report Requested: 10/16/2014
Time Report Requested: 15:08:53
First Dose M/F: NA / NA
Lab: BNW

| F 344/N Rat MALE | CONTROL | 62.5 PPM | 125 PPM | 250 PPM | 500 PPM | 1000 PPM |
|------------------|---------|----------|---------|---------|---------|----------|
|------------------|---------|----------|---------|---------|---------|----------|

Tumor Summary for MALE

Total Animals with Primary Neoplasms (b)
Total Primary Neoplasms

Total Animals with Benign Neoplasms
Total Benign Neoplasms

Total Animals with Malignant Neoplasms
Total Malignant Neoplasms

Total Animals with Metastatic Neoplasms
Total Metastatic Neoplasms

**Total Animals with Malignant Neoplasms
Uncertain Primary Site**

**Total Animals with Neoplasms Uncertain -
Benign or Malignant**
Total Uncertain Neoplasms

END OF MALE DATA

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 96011-03

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: Cumene

Time Report Requested: 15:08:53

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 98-82-8

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

| F 344/N Rat FEMALE | CONTROL | 62.5 PPM | 125 PPM | 250 PPM | 500 PPM | 1000 PPM |
|----------------------------------|---------|----------|---------|---------|---------|----------|
| Disposition Summary | | | | | | |
| Animals Initially In Study | 10 | 10 | 10 | 10 | 10 | 10 |
| Early Deaths | | | | | | |
| Survivors | | | | | | |
| Terminal Sacrifice | 10 | 10 | 10 | 10 | 10 | 10 |
| Animals Examined Microscopically | 10 | | 2 | | 2 | 10 |
| ALIMENTARY SYSTEM | | | | | | |
| Esophagus | (10) | (0) | (0) | (0) | (0) | (10) |
| Intestine Large, Cecum | (10) | (0) | (0) | (0) | (0) | (10) |
| Intestine Large, Colon | (10) | (0) | (0) | (0) | (0) | (10) |
| Intestine Large, Rectum | (10) | (0) | (0) | (0) | (0) | (10) |
| Intestine Small, Duodenum | (10) | (0) | (0) | (0) | (0) | (10) |
| Intestine Small, Ileum | (10) | (0) | (0) | (0) | (0) | (10) |
| Intestine Small, Jejunum | (10) | (0) | (0) | (0) | (0) | (10) |
| Liver | (10) | (0) | (1) | (0) | (0) | (10) |
| Pancreas | (10) | (0) | (0) | (0) | (0) | (10) |
| Salivary Glands | (10) | (0) | (0) | (0) | (0) | (10) |
| Stomach, Forestomach | (9) | (0) | (0) | (0) | (1) | (10) |
| Stomach, Glandular | (9) | (0) | (0) | (0) | (0) | (10) |
| CARDIOVASCULAR SYSTEM | | | | | | |
| Blood Vessel | (10) | (0) | (0) | (0) | (0) | (10) |
| Heart | (10) | (0) | (0) | (0) | (0) | (10) |
| ENDOCRINE SYSTEM | | | | | | |
| Adrenal Cortex | (10) | (0) | (0) | (0) | (0) | (10) |
| Adrenal Medulla | (10) | (0) | (0) | (0) | (0) | (10) |
| Islets, Pancreatic | (10) | (0) | (0) | (0) | (0) | (10) |

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 96011-03

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Date Report Requested: 10/16/2014

Test Type: 90-DAY

Test Compound: Cumene

Time Report Requested: 15:08:53

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 98-82-8

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

| F 344/N Rat FEMALE | CONTROL | 62.5 PPM | 125 PPM | 250 PPM | 500 PPM | 1000 PPM |
|-------------------------|---------|----------|---------|---------|---------|----------|
| Parathyroid Gland | (10) | (0) | (0) | (0) | (0) | (10) |
| Pituitary Gland | (10) | (0) | (0) | (0) | (0) | (10) |
| Thyroid Gland | (10) | (0) | (0) | (0) | (0) | (10) |
| GENERAL BODY SYSTEM | | | | | | |
| None | | | | | | |
| GENITAL SYSTEM | | | | | | |
| Clitoral Gland | (10) | (0) | (0) | (0) | (0) | (10) |
| Ovary | (10) | (0) | (1) | (0) | (0) | (10) |
| Uterus | (10) | (0) | (0) | (0) | (0) | (10) |
| HEMATOPOIETIC SYSTEM | | | | | | |
| Bone Marrow | (10) | (0) | (0) | (0) | (0) | (10) |
| Lymph Node, Mediastinal | (5) | (0) | (0) | (0) | (0) | (4) |
| Lymph Node, Mesenteric | (10) | (0) | (0) | (0) | (0) | (10) |
| Spleen | (10) | (0) | (0) | (0) | (0) | (10) |
| Thymus | (10) | (0) | (0) | (0) | (0) | (10) |
| INTEGUMENTARY SYSTEM | | | | | | |
| Mammary Gland | (10) | (0) | (0) | (0) | (0) | (10) |
| Skin | (10) | (0) | (0) | (0) | (1) | (10) |
| MUSCULOSKELETAL SYSTEM | | | | | | |
| Bone | (10) | (0) | (0) | (0) | (0) | (10) |
| NERVOUS SYSTEM | | | | | | |
| Brain | (10) | (0) | (0) | (0) | (0) | (10) |
| RESPIRATORY SYSTEM | | | | | | |
| Larynx | (10) | (0) | (0) | (0) | (0) | (10) |
| Lung | (10) | (0) | (0) | (0) | (0) | (10) |

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 96011-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Cumene

CAS Number: 98-82-8

Date Report Requested: 10/16/2014

Time Report Requested: 15:08:53

First Dose M/F: NA / NA

Lab: BNW

| F 344/N Rat FEMALE | CONTROL | 62.5 PPM | 125 PPM | 250 PPM | 500 PPM | 1000 PPM |
|-----------------------|---------|----------|---------|---------|---------|----------|
| Nose | (10) | (0) | (0) | (0) | (0) | (10) |
| Pleura | (10) | (0) | (0) | (0) | (0) | (10) |
| Trachea | (10) | (0) | (0) | (0) | (0) | (10) |
| SPECIAL SENSES SYSTEM | | | | | | |
| Eye | (10) | (0) | (0) | (0) | (0) | (10) |
| Harderian Gland | (10) | (0) | (0) | (0) | (0) | (10) |
| URINARY SYSTEM | | | | | | |
| Kidney | (10) | (0) | (0) | (0) | (0) | (10) |
| Urinary Bladder | (10) | (0) | (0) | (0) | (0) | (10) |

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

Experiment Number: 96011-03
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
Test Compound: Cumene
CAS Number: 98-82-8

Date Report Requested: 10/16/2014
Time Report Requested: 15:08:53
First Dose M/F: NA / NA
Lab: BNW

| F 344/N Rat FEMALE | CONTROL | 62.5 PPM | 125 PPM | 250 PPM | 500 PPM | 1000 PPM |
|---------------------------|----------------|-----------------|----------------|----------------|----------------|-----------------|
|---------------------------|----------------|-----------------|----------------|----------------|----------------|-----------------|

Tumor Summary for FEMALE

Total Animals with Primary Neoplasms (b)
Total Primary Neoplasms

Total Animals with Benign Neoplasms
Total Benign Neoplasms

Total Animals with Malignant Neoplasms
Total Malignant Neoplasms

Total Animals with Metastatic Neoplasms
Total Metastatic Neoplasms

**Total Animals with Malignant Neoplasms
Uncertain Primary Site**

**Total Animals with Neoplasms Uncertain -
Benign or Malignant**
Total Uncertain Neoplasms

**** END OF REPORT ****

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically