

**Experiment Number:** 88006-01  
**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:** alpha-Methylstyrene  
**CAS Number:** 98-83-9

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 11:11:28  
**First Dose M/F:** NA / NA  
**Lab:** BNW

|                             |            |
|-----------------------------|------------|
| <b>C Number:</b>            | C88006B    |
| <b>Lock Date:</b>           | 03/23/2001 |
| <b>Cage Range:</b>          | All        |
| <b>Date Range:</b>          | All        |
| <b>Reasons For Removal:</b> | All        |
| <b>Removal Date Range:</b>  | All        |
| <b>Treatment Groups:</b>    | All        |
| <b>Study Gender:</b>        | Both       |
| <b>PWG Approval Date</b>    | NONE       |

Experiment Number: 88006-01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

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

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Date Report Requested: 10/17/2014

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First Dose M/F: NA / NA

Lab: BNW

| F 344/N Rat MALE                 | CONTROL | 75 PPM | 150 PPM | 300 PPM | 600 PPM | 1000 PPM |
|----------------------------------|---------|--------|---------|---------|---------|----------|
| <b>Disposition Summary</b>       |         |        |         |         |         |          |
| 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       |
| <b>ALIMENTARY SYSTEM</b>         |         |        |         |         |         |          |
| 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)    | (10)   | (10)    | (10)    | (10)    | (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)     |
| <b>CARDIOVASCULAR SYSTEM</b>     |         |        |         |         |         |          |
| Blood Vessel                     | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| Heart                            | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| <b>ENDOCRINE SYSTEM</b>          |         |        |         |         |         |          |
| 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: 88006-01

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Test Type: 90-DAY

Test Compound: alpha-Methylstyrene

Time Report Requested: 11:11:28

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 98-83-9

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

| F 344/N Rat MALE        | CONTROL | 75 PPM | 150 PPM | 300 PPM | 600 PPM | 1000 PPM |
|-------------------------|---------|--------|---------|---------|---------|----------|
| Islets, Pancreatic      | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| Parathyroid Gland       | (9)     | (0)    | (0)     | (0)     | (0)     | (7)      |
| Pituitary Gland         | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| Thyroid Gland           | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| GENERAL BODY SYSTEM     |         |        |         |         |         |          |
| None                    |         |        |         |         |         |          |
| GENITAL SYSTEM          |         |        |         |         |         |          |
| Epididymis              | (9)     | (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   | (3)     | (0)    | (0)     | (0)     | (0)     | (2)      |
| Lymph Node, Mandibular  | (1)     | (0)    | (0)     | (0)     | (0)     | (0)      |
| Lymph Node, Mediastinal | (6)     | (1)    | (0)     | (0)     | (0)     | (7)      |
| 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           | (9)     | (0)    | (0)     | (0)     | (0)     | (7)      |
| Skin                    | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| MUSCULOSKELETAL SYSTEM  |         |        |         |         |         |          |
| Bone                    | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| NERVOUS SYSTEM          |         |        |         |         |         |          |

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

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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: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 10/17/2014

Time Report Requested: 11:11:28

First Dose M/F: NA / NA

Lab: BNW

| F 344/N Rat MALE      | CONTROL | 75 PPM | 150 PPM | 300 PPM | 600 PPM | 1000 PPM |
|-----------------------|---------|--------|---------|---------|---------|----------|
| Brain                 | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| RESPIRATORY SYSTEM    |         |        |         |         |         |          |
| Larynx                | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| Lung                  | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| Nose                  | (10)    | (10)   | (10)    | (10)    | (10)    | (10)     |
| Pleura                | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| Trachea               | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| SPECIAL SENSES SYSTEM |         |        |         |         |         |          |
| Eye                   | (10)    | (1)    | (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)    | (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

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**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** Rat/F 344/N

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**Time Report Requested:** 11:11:28  
**First Dose M/F:** NA / NA  
**Lab:** BNW

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| F 344/N Rat MALE | CONTROL | 75 PPM | 150 PPM | 300 PPM | 600 PPM | 1000 PPM |
|------------------|---------|--------|---------|---------|---------|----------|
|------------------|---------|--------|---------|---------|---------|----------|

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**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**

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\*\*\*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: 88006-01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

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Date Report Requested: 10/17/2014

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First Dose M/F: NA / NA

Lab: BNW

| F 344/N Rat FEMALE               | CONTROL | 75 PPM | 150 PPM | 300 PPM | 600 PPM | 1000 PPM |
|----------------------------------|---------|--------|---------|---------|---------|----------|
| <b>Disposition Summary</b>       |         |        |         |         |         |          |
| 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       |
| <b>ALIMENTARY SYSTEM</b>         |         |        |         |         |         |          |
| 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)    | (10)   | (10)    | (10)    | (10)    | (10)     |
| Mesentery                        | (1)     | (0)    | (0)     | (0)     | (0)     | (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)     |
| <b>CARDIOVASCULAR SYSTEM</b>     |         |        |         |         |         |          |
| Blood Vessel                     | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| Heart                            | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| <b>ENDOCRINE SYSTEM</b>          |         |        |         |         |         |          |
| 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

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Route: RESPIRATORY EXPOSURE WHOLE BODY

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First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

| F 344/N Rat FEMALE      | CONTROL | 75 PPM | 150 PPM | 300 PPM | 600 PPM | 1000 PPM |
|-------------------------|---------|--------|---------|---------|---------|----------|
| Islets, Pancreatic      | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| Parathyroid Gland       | (9)     | (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)    | (1)    | (0)     | (0)     | (0)     | (10)     |
| Uterus                  | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| HEMATOPOIETIC SYSTEM    |         |        |         |         |         |          |
| Bone Marrow             | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| Lymph Node              | (1)     | (0)    | (0)     | (0)     | (0)     | (0)      |
| Lymph Node, Bronchial   | (2)     | (0)    | (0)     | (0)     | (0)     | (0)      |
| Lymph Node, Mediastinal | (9)     | (1)    | (0)     | (0)     | (0)     | (9)      |
| Lymph Node, Mesenteric  | (10)    | (1)    | (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

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Species/Strain: Rat/F 344/N

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First Dose M/F: NA / NA

Lab: BNW

| F 344/N Rat FEMALE    | CONTROL | 75 PPM | 150 PPM | 300 PPM | 600 PPM | 1000 PPM |
|-----------------------|---------|--------|---------|---------|---------|----------|
| RESPIRATORY SYSTEM    |         |        |         |         |         |          |
| Larynx                | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| Lung                  | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| Nose                  | (10)    | (10)   | (10)    | (10)    | (10)    | (10)     |
| Pleura                | (10)    | (0)    | (0)     | (1)     | (0)     | (10)     |
| Trachea               | (10)    | (0)    | (0)     | (0)     | (0)     | (10)     |
| SPECIAL SENSES SYSTEM |         |        |         |         |         |          |
| Ear                   | (0)     | (0)    | (0)     | (0)     | (0)     | (1)      |
| 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)    | (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



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**Lab:** BNW

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| <b>F 344/N Rat FEMALE</b> | <b>CONTROL</b> | <b>75 PPM</b> | <b>150 PPM</b> | <b>300 PPM</b> | <b>600 PPM</b> | <b>1000 PPM</b> |
|---------------------------|----------------|---------------|----------------|----------------|----------------|-----------------|
|---------------------------|----------------|---------------|----------------|----------------|----------------|-----------------|

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**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**

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**\*\* 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