

**Experiment Number:** 02200-04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS  
ABRIDGED) (a)**

**Test Compound:** Styrene

**CAS Number:** 100-42-5

**Date Report Requested:** 10/18/2014

**Time Report Requested:** 15:26:04

**First Dose M/F:** NA / NA

**Lab:** BNW

<b>C Number:</b>	C02200B
<b>Lock Date:</b>	05/26/1992
<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

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**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:26:04

First Dose M/F: NA / NA

Lab: BNW

B6C3F1 Mouse MALE	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Disposition Summary</b>					
Animals Initially In Study	10	10	10	10	10
Early Deaths					
Moribund Sacrifice				1	
Natural Death				5	
Survivors					
Terminal Sacrifice	10	10	10	4	10
Animals Examined Microscopically	10	10	10	10	10
<b>ALIMENTARY SYSTEM</b>					
Esophagus	(10)	(0)	(10)	(10)	(10)
Gallbladder	(8)	(0)	(8)	(8)	(10)
Intestine Large, Cecum	(10)	(0)	(10)	(10)	(10)
Intestine Large, Colon	(10)	(0)	(9)	(10)	(10)
Intestine Large, Rectum	(10)	(0)	(10)	(10)	(9)
Intestine Small, Duodenum	(10)	(0)	(10)	(8)	(10)
Intestine Small, Ileum	(10)	(0)	(10)	(9)	(10)
Intestine Small, Jejunum	(10)	(0)	(10)	(9)	(10)
Liver	(10)	(1)	(10)	(10)	(10)
Hepatocellular Adenoma					1 (10%)
Pancreas	(10)	(0)	(10)	(10)	(10)
Salivary Glands	(10)	(0)	(10)	(10)	(10)
Stomach, Forestomach	(10)	(10)	(10)	(10)	(10)
Stomach, Glandular	(10)	(10)	(10)	(10)	(10)
<b>CARDIOVASCULAR SYSTEM</b>					
Blood Vessel	(9)	(0)	(10)	(9)	(10)
Heart	(10)	(0)	(10)	(10)	(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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First Dose M/F: NA / NA

Lab: BNW

B6C3F1 Mouse MALE	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>ENDOCRINE SYSTEM</b>					
Adrenal Cortex	(10)	(0)	(10)	(10)	(10)
Adrenal Medulla	(10)	(0)	(10)	(10)	(10)
Islets, Pancreatic	(10)	(0)	(10)	(10)	(10)
Parathyroid Gland	(4)	(0)	(7)	(4)	(5)
Pituitary Gland	(9)	(0)	(10)	(10)	(9)
Thyroid Gland	(10)	(0)	(10)	(10)	(10)
<b>GENERAL BODY SYSTEM</b>					
None					
<b>GENITAL SYSTEM</b>					
Epididymis	(10)	(0)	(10)	(10)	(10)
Preputial Gland	(10)	(0)	(10)	(10)	(10)
Prostate	(10)	(0)	(10)	(10)	(10)
Seminal Vesicle	(10)	(0)	(10)	(10)	(10)
Testes	(10)	(0)	(10)	(10)	(10)
<b>HEMATOPOIETIC SYSTEM</b>					
Bone Marrow	(10)	(0)	(10)	(10)	(10)
Lymph Node, Bronchial	(4)	(0)	(3)	(6)	(8)
Lymph Node, Mandibular	(7)	(0)	(9)	(9)	(8)
Lymph Node, Mediastinal	(5)	(0)	(5)	(5)	(2)
Lymph Node, Mesenteric	(10)	(0)	(9)	(9)	(9)
Spleen	(10)	(1)	(10)	(10)	(10)
Thymus	(10)	(0)	(10)	(10)	(10)
<b>INTEGUMENTARY SYSTEM</b>					
Skin	(10)	(0)	(10)	(10)	(9)
<b>MUSCULOSKELETAL SYSTEM</b>					

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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B6C3F1 Mouse MALE	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
Bone	(10)	(0)	(10)	(10)	(10)
NERVOUS SYSTEM					
Brain	(10)	(0)	(10)	(10)	(10)
RESPIRATORY SYSTEM					
Larynx	(10)	(0)	(10)	(10)	(10)
Lung	(10)	(10)	(10)	(10)	(10)
Alveolar/Bronchiolar Adenoma		1 (10%)			
Nose	(10)	(10)	(10)	(10)	(10)
Trachea	(10)	(0)	(10)	(10)	(10)
SPECIAL SENSES SYSTEM					
None					
URINARY SYSTEM					
Kidney	(10)	(0)	(10)	(10)	(10)
Urinary Bladder	(10)	(0)	(9)	(10)	(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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First Dose M/F: NA / NA

Lab: BNW

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B6C3F1 Mouse MALE	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Tumor Summary for MALE</b>					
Total Animals with Primary Neoplasms (b)		1			1
Total Primary Neoplasms		1			1
Total Animals with Benign Neoplasms		1			1
Total Benign Neoplasms		1			1
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

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Species/Strain: Mouse/B6C3F1

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First Dose M/F: NA / NA

Lab: BNW

<b>B6C3F1 Mouse FEMALE</b>	<b>CONTROL</b>	<b>62.5 PPM</b>	<b>125 PPM</b>	<b>250 PPM</b>	<b>500 PPM</b>
<b>Disposition Summary</b>					
<b>Animals Initially In Study</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>Early Deaths</b>					
<b>Survivors</b>					
<b>Terminal Sacrifice</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>Animals Examined Microscopically</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>ALIMENTARY SYSTEM</b>					
Esophagus	(9)	(0)	(0)	(0)	(10)
Gallbladder	(8)	(0)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(10)
Liver	(10)	(1)	(10)	(10)	(10)
Pancreas	(10)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(10)	(10)	(10)	(10)
Stomach, Glandular	(10)	(10)	(10)	(10)	(10)
<b>CARDIOVASCULAR SYSTEM</b>					
Blood Vessel	(10)	(0)	(0)	(0)	(9)
Heart	(10)	(0)	(10)	(10)	(10)
<b>ENDOCRINE SYSTEM</b>					
Adrenal Cortex	(10)	(10)	(10)	(10)	(10)
Adrenal Medulla	(10)	(10)	(10)	(10)	(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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First Dose M/F: NA / NA

Lab: BNW

<b>B6C3F1 Mouse FEMALE</b>	<b>CONTROL</b>	<b>62.5 PPM</b>	<b>125 PPM</b>	<b>250 PPM</b>	<b>500 PPM</b>
Islets, Pancreatic	(10)	(0)	(0)	(0)	(10)
Parathyroid Gland	(4)	(0)	(0)	(0)	(7)
Pituitary Gland	(9)	(0)	(0)	(0)	(9)
Thyroid Gland	(10)	(0)	(0)	(0)	(10)
<b>GENERAL BODY SYSTEM</b>					
None					
<b>GENITAL SYSTEM</b>					
Clitoral Gland	(9)	(0)	(0)	(0)	(10)
Ovary	(10)	(0)	(0)	(1)	(10)
Uterus	(10)	(0)	(0)	(0)	(10)
<b>HEMATOPOIETIC SYSTEM</b>					
Bone Marrow	(10)	(0)	(0)	(0)	(10)
Lymph Node, Bronchial	(9)	(0)	(0)	(0)	(8)
Lymph Node, Mandibular	(9)	(0)	(0)	(0)	(8)
Lymph Node, Mediastinal	(2)	(0)	(0)	(0)	(2)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(9)
Spleen	(10)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(10)
<b>INTEGUMENTARY SYSTEM</b>					
Mammary Gland	(10)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>					
Bone	(10)	(0)	(0)	(0)	(10)
<b>NERVOUS SYSTEM</b>					
Brain	(10)	(0)	(0)	(0)	(10)

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

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<b>RESPIRATORY SYSTEM</b>					
Larynx	(10)	(0)	(10)	(10)	(10)
Lung	(10)	(10)	(10)	(10)	(10)
Alveolar/Bronchiolar Adenoma			1 (10%)		
Nose	(10)	(10)	(10)	(10)	(10)
Trachea	(10)	(0)	(0)	(0)	(10)
<b>SPECIAL SENSES SYSTEM</b>					
None					
<b>URINARY SYSTEM</b>					
Kidney	(10)	(0)	(0)	(0)	(10)
Urinary Bladder	(10)	(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

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B6C3F1 Mouse FEMALE	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM
<b>Tumor Summary for FEMALE</b>					
Total Animals with Primary Neoplasms (b)			1		
Total Primary Neoplasms			1		
Total Animals with Benign Neoplasms			1		
Total Benign Neoplasms			1		
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