

**Experiment Number:** 20727 - 01

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

**Date Report Requested:** 02/10/2012

**Test Type:** 90-DAY

ortho-Phthalaldehyde

**Time Report Requested:** 11:42:10

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**CAS Number:** 643-79-8

**First Dose M/F:** 01/19/09 / 01/20/09

**Species/Strain:** RATS/HSD

**Lab:** BNW

F1\_HSD

**NTP Study Number:** C20727  
**Lock Date:** 08/21/2009  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.6.0.0\_007  
**PWG Approval Date:** NONE

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First Dose M/F: 01/19/09 / 01/20/09

Species/Strain: RATS/HSD

Lab: BNW

Harlan Sprague Dawley RATS MALE	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
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**Disposition Summary**

Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Moribund Sacrifice					3	2
Natural Death					4	8
Survivors						
Terminal Sacrifice	10	10	10	10	3	
Animals Examined Microscopically	10	10	10	10	10	10

## ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(9)	(10)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(10)	(10)	(8)
Intestine Large, Colon	(10)	(0)	(0)	(10)	(10)	(8)
Intestine Large, Rectum	(10)	(0)	(0)	(10)	(10)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(10)	(10)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(10)	(10)	(8)
Intestine Small, Jejunum	(10)	(0)	(0)	(10)	(10)	(7)
Liver	(10)	(1)	(0)	(10)	(10)	(10)
Pancreas	(10)	(0)	(0)	(10)	(10)	(10)
Salivary Glands	(10)	(0)	(0)	(10)	(10)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(10)	(10)	(10)
Stomach, Glandular	(10)	(0)	(0)	(10)	(10)	(10)

## CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(0)	(10)	(0)	(0)
Heart	(10)	(0)	(1)	(10)	(10)	(10)

## ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(0)	(10)	(10)	(10)
Adrenal Medulla	(10)	(0)	(0)	(10)	(10)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(10)	(10)	(10)

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

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Harlan Sprague Dawley RATS MALE	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Parathyroid Gland	(10)	(0)	(0)	(8)	(10)	(9)
Pituitary Gland	(10)	(0)	(0)	(10)	(10)	(10)
Thyroid Gland	(10)	(0)	(0)	(10)	(10)	(10)

## GENERAL BODY SYSTEM

None

## GENITAL SYSTEM

Epididymis	(10)	(0)	(0)	(10)	(10)	(10)
Penis	(0)	(0)	(0)	(0)	(1)	(0)
Preputial Gland	(10)	(0)	(0)	(9)	(10)	(10)
Prostate	(10)	(0)	(0)	(10)	(10)	(10)
Seminal Vesicle	(10)	(0)	(0)	(10)	(10)	(10)
Testes	(10)	(0)	(1)	(10)	(10)	(10)

## HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(10)	(10)	(10)
Lymph Node	(0)	(1)	(0)	(0)	(0)	(0)
Lymph Node, Bronchial	(7)	(0)	(0)	(6)	(7)	(6)
Lymph Node, Mandibular	(9)	(0)	(0)	(10)	(10)	(10)
Lymph Node, Mediastinal	(8)	(0)	(0)	(4)	(9)	(7)
Lymph Node, Mesenteric	(10)	(0)	(0)	(10)	(10)	(10)
Spleen	(10)	(9)	(10)	(10)	(10)	(10)
Thymus	(10)	(10)	(10)	(10)	(10)	(10)

## INTEGUMENTARY SYSTEM

Mammary Gland	(6)	(0)	(0)	(7)	(6)	(2)
Skin	(10)	(10)	(10)	(10)	(10)	(10)

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Harlan Sprague Dawley RATS MALE	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(0)	(10)	(10)	(10)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(0)	(10)	(10)	(10)
<b>RESPIRATORY SYSTEM</b>						
Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Trachea	(10)	(10)	(10)	(10)	(10)	(10)
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(10)	(10)	(10)	(10)	(10)	(10)
Harderian Gland	(10)	(0)	(0)	(10)	(10)	(10)
<b>URINARY SYSTEM</b>						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Urinary Bladder	(10)	(0)	(0)	(10)	(10)	(10)

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

Experiment Number: 20727 - 01

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

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Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 643-79-8

First Dose M/F: 01/19/09 / 01/20/09

Species/Strain: RATS/HSD

Lab: BNW

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Harlan Sprague Dawley RATS MALE

CONTROL

0.44 ppm

0.88 ppm

1.75 ppm

3.5 ppm

7.0 ppm

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## Tumor Summary for Males

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 \*\*\*

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

b - Primary tumors: all tumors except metastatic tumors

Test Type: 90-DAY

ortho-Phthalaldehyde

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First Dose M/F: 01/19/09 / 01/20/09

Species/Strain: RATS/HSD

Lab: BNW

Harlan Sprague Dawley RATS FEMALE	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
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**Disposition Summary**

Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Moribund Sacrifice					2	1
Natural Death						9
Survivors						
Terminal Sacrifice	10	10	10	10	8	
Animals Examined Microscopically	10	10	10	10	10	10

## ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(10)	(6)
Liver	(10)	(0)	(0)	(0)	(10)	(10)
Mesentery	(0)	(0)	(1)	(0)	(0)	(0)
Pancreas	(10)	(0)	(0)	(0)	(10)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(10)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(10)	(10)
Stomach, Glandular	(10)	(9)	(9)	(10)	(10)	(10)

## CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(0)	(0)	(10)	(0)
Heart	(10)	(0)	(0)	(0)	(10)	(10)

## ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(0)	(0)	(10)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(10)	(10)

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Species/Strain: RATS/HSD

Lab: BNW

Harlan Sprague Dawley RATS FEMALE	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
Islets, Pancreatic	(10)	(0)	(0)	(0)	(10)	(10)
Parathyroid Gland	(8)	(0)	(0)	(0)	(9)	(9)
Pituitary Gland	(10)	(0)	(0)	(0)	(10)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(10)	(10)

## GENERAL BODY SYSTEM

None

## GENITAL SYSTEM

Clitoral Gland	(10)	(0)	(0)	(0)	(10)	(10)
Ovary	(10)	(0)	(0)	(0)	(10)	(10)
Uterus	(10)	(0)	(0)	(1)	(10)	(10)

## HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(0)	(10)	(10)
Lymph Node, Bronchial	(8)	(0)	(0)	(0)	(7)	(5)
Lymph Node, Mandibular	(9)	(0)	(0)	(0)	(10)	(10)
Lymph Node, Mediastinal	(8)	(0)	(0)	(0)	(6)	(10)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(10)	(9)
Spleen	(10)	(10)	(10)	(10)	(10)	(10)
Thymus	(10)	(10)	(10)	(10)	(9)	(10)

## INTEGUMENTARY SYSTEM

Mammary Gland	(10)	(0)	(0)	(0)	(10)	(10)
Skin	(10)	(10)	(10)	(10)	(10)	(10)

## MUSCULOSKELETAL SYSTEM

Bone	(10)	(0)	(0)	(0)	(10)	(10)
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Harlan Sprague Dawley RATS FEMALE	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm	3.5 ppm	7.0 ppm
<hr/>						
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(10)	(10)
<hr/>						
RESPIRATORY SYSTEM						
Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Trachea	(10)	(10)	(10)	(10)	(10)	(10)
<hr/>						
SPECIAL SENSES SYSTEM						
Eye	(10)	(10)	(10)	(10)	(10)	(10)
Harderian Gland	(10)	(0)	(0)	(0)	(10)	(10)
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URINARY SYSTEM						
Kidney	(10)	(10)	(9)	(10)	(10)	(10)
Urinary Bladder	(10)	(0)	(0)	(0)	(10)	(10)

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



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Harlan Sprague Dawley RATS FEMALE

CONTROL

0.44 ppm

0.88 ppm

1.75 ppm

3.5 ppm

7.0 ppm

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## Tumor Summary for Females

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