

**Experiment Number:** 88148-05  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/HSD

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

**Test Compound:** 3,3',4,4'-Tetrachloroazobenzene  
**CAS Number:** 14047-09-7

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 07:49:18  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**C Number:** C88148B  
**Lock Date:** 10/02/2001  
**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: 88148-05

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

Date Report Requested: 10/20/2014

Test Type: 90-DAY

Test Compound: 3,3',4,4'-Tetrachloroazobenzene

Time Report Requested: 07:49:18

Route: GAVAGE

CAS Number: 14047-09-7

First Dose M/F: NA / NA

Species/Strain: Rat/HSD

Lab: BAT

HSD Rat MALE	0 MG/KG	0.1 MG/KG	0.3 MG/KG	1.0 MG/KG	3.0 MG/KG	10.0 MG/KG
<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>						
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(0)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Pancreas	(10)	(0)	(0)	(0)	(0)	(0)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(0)
Tongue	(10)	(0)	(0)	(0)	(0)	(0)
<b>CARDIOVASCULAR SYSTEM</b>						
None						
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(0)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(0)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(0)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(0)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
None						
<b>HEMATOPOIETIC SYSTEM</b>						
Spleen	(10)	(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: BAT

HSD Rat MALE	0 MG/KG	0.1 MG/KG	0.3 MG/KG	1.0 MG/KG	3.0 MG/KG	10.0 MG/KG
Thymus	(9)	(10)	(10)	(10)	(10)	(10)
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(0)
Skin	(10)	(0)	(0)	(0)	(0)	(0)
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
Lung	(10)	(10)	(9)	(10)	(10)	(10)
Nose	(10)	(0)	(0)	(0)	(0)	(0)
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
None						

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: 88148-05

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/HSD

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

Test Compound: 3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

Date Report Requested: 10/20/2014

Time Report Requested: 07:49:18

First Dose M/F: NA / NA

Lab: BAT

HSD Rat MALE	30.0 MG/KG	100.00 MG/KG
<b>Disposition Summary</b>		
Animals Initially In Study	10	10
Early Deaths		
Survivors		
Terminal Sacrifice	10	10
Animals Examined Microscopically	10	10
<b>ALIMENTARY SYSTEM</b>		
Intestine Small, Duodenum	(0)	(10)
Liver	(10)	(10)
Pancreas	(0)	(10)
Stomach, Forestomach	(0)	(10)
Tongue	(0)	(10)
<b>CARDIOVASCULAR SYSTEM</b>		
None		
<b>ENDOCRINE SYSTEM</b>		
Adrenal Cortex	(0)	(10)
Adrenal Medulla	(0)	(10)
Pituitary Gland	(0)	(10)
Thyroid Gland	(0)	(10)
<b>GENERAL BODY SYSTEM</b>		
None		
<b>GENITAL SYSTEM</b>		
None		
<b>HEMATOPOIETIC SYSTEM</b>		
Spleen	(10)	(9)

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:** GAVAGE

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

**Lab:** BAT

<b>HSD Rat MALE</b>	<b>30.0 MG/KG</b>	<b>100.00 MG/KG</b>
Thymus	(10)	(8)
<b>INTEGUMENTARY SYSTEM</b>		
Mammary Gland	(0)	(10)
Skin	(0)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>		
None		
<b>NERVOUS SYSTEM</b>		
None		
<b>RESPIRATORY SYSTEM</b>		
Lung	(10)	(10)
Nose	(0)	(10)
<b>SPECIAL SENSES SYSTEM</b>		
None		
<b>URINARY SYSTEM</b>		
None		

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:** GAVAGE  
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**First Dose M/F:** NA / NA  
**Lab:** BAT

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HSD Rat MALE	0 MG/KG	0.1 MG/KG	0.3 MG/KG	1.0 MG/KG	3.0 MG/KG	10.0 MG/KG
<b>Tumor Summary for MALE</b>						
<b>Total Animals with Primary Neoplasms (b)</b>						
Total Primary Neoplasms						
<b>Total Animals with Benign Neoplasms</b>						
Total Benign Neoplasms						
<b>Total Animals with Malignant Neoplasms</b>						
Total Malignant Neoplasms						
<b>Total Animals with Metastatic Neoplasms</b>						
Total Metastatic Neoplasms						
<b>Total Animals with Malignant Neoplasms Uncertain Primary Site</b>						
Total Malignant Neoplasms Uncertain Primary Site						
<b>Total Animals with Neoplasms Uncertain - Benign or Malignant</b>						
Total Neoplasms Uncertain - Benign or Malignant						

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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:** GAVAGE

**Species/Strain:** Rat/HSD

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**Time Report Requested:** 07:49:18

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

**Lab:** BAT

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**HSD Rat MALE**

**30.0 MG/KG**

**100.00 MG/KG**

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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

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Test Type: 90-DAY

Test Compound: 3,3',4,4'-Tetrachloroazobenzene

Time Report Requested: 07:49:18

Route: GAVAGE

CAS Number: 14047-09-7

First Dose M/F: NA / NA

Species/Strain: Rat/HSD

Lab: BAT

HSD Rat FEMALE	0 MG/KG	0.1 MG/KG	0.3 MG/KG	1.0 MG/KG	3.0 MG/KG	10.0 MG/KG
<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>						
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(0)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Oral Mucosa	(0)	(0)	(0)	(0)	(0)	(0)
Pancreas	(10)	(0)	(0)	(0)	(0)	(0)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(0)
Tongue	(10)	(0)	(0)	(0)	(0)	(0)
<b>CARDIOVASCULAR SYSTEM</b>						
None						
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(0)	(2)	(0)	(0)	(0)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(0)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(0)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(0)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Ovary	(10)	(0)	(0)	(0)	(0)	(0)
Uterus	(10)	(0)	(1)	(0)	(0)	(0)
Vagina	(10)	(0)	(0)	(0)	(0)	(0)

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

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\* Number of animals with any tissue examined microscopically



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HSD Rat FEMALE	0 MG/KG	0.1 MG/KG	0.3 MG/KG	1.0 MG/KG	3.0 MG/KG	10.0 MG/KG
<b>HEMATOPOIETIC SYSTEM</b>						
Spleen	(10)	(2)	(2)	(2)	(2)	(10)
Thymus	(10)	(10)	(10)	(10)	(10)	(10)
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(9)	(0)	(0)	(0)	(0)	(0)
Skin	(10)	(0)	(0)	(0)	(0)	(0)
<b>MUSCULOSKELETAL SYSTEM</b>						
None						
<b>NERVOUS SYSTEM</b>						
None						
<b>RESPIRATORY SYSTEM</b>						
Lung	(10)	(10)	(10)	(10)	(10)	(9)
Nose	(10)	(0)	(0)	(0)	(0)	(0)
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(0)	(1)	(0)	(0)	(2)	(1)
<b>URINARY SYSTEM</b>						
None						

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\* Number of animals with any tissue examined microscopically

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First Dose M/F: NA / NA

Lab: BAT

HSD Rat FEMALE	30.0 MG/KG	100.0 MG/KG
<b>Disposition Summary</b>		
Animals Initially In Study	10	10
Early Deaths		
Survivors		
Terminal Sacrifice	10	10
Animals Examined Microscopically	10	10
<b>ALIMENTARY SYSTEM</b>		
Intestine Small, Duodenum	(0)	(10)
Liver	(10)	(10)
Oral Mucosa	(0)	(2)
Pancreas	(0)	(10)
Stomach, Forestomach	(0)	(10)
Tongue	(0)	(10)
<b>CARDIOVASCULAR SYSTEM</b>		
None		
<b>ENDOCRINE SYSTEM</b>		
Adrenal Cortex	(1)	(10)
Adrenal Medulla	(0)	(10)
Pituitary Gland	(0)	(10)
Thyroid Gland	(0)	(10)
<b>GENERAL BODY SYSTEM</b>		
None		
<b>GENITAL SYSTEM</b>		
Ovary	(0)	(10)
Uterus	(0)	(10)
Vagina	(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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First Dose M/F: NA / NA

Lab: BAT

HSD Rat FEMALE	30.0 MG/KG	100.0 MG/KG
HEMATOPOIETIC SYSTEM		
Spleen	(10)	(10)
Thymus	(10)	(10)
INTEGUMENTARY SYSTEM		
Mammary Gland	(0)	(10)
Skin	(0)	(10)
MUSCULOSKELETAL SYSTEM		
None		
NERVOUS SYSTEM		
None		
RESPIRATORY SYSTEM		
Lung	(9)	(10)
Nose	(0)	(10)
SPECIAL SENSES SYSTEM		
Eye	(0)	(0)
URINARY SYSTEM		
None		

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:** BAT

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HSD Rat FEMALE	0 MG/KG	0.1 MG/KG	0.3 MG/KG	1.0 MG/KG	3.0 MG/KG	10.0 MG/KG
<b>Tumor Summary for FEMALE</b>						
<b>Total Animals with Primary Neoplasms (b)</b>						
<b>Total Primary Neoplasms</b>						
<b>Total Animals with Benign Neoplasms</b>						
<b>Total Benign Neoplasms</b>						
<b>Total Animals with Malignant Neoplasms</b>						
<b>Total Malignant Neoplasms</b>						
<b>Total Animals with Metastatic Neoplasms</b>						
<b>Total Metastatic Neoplasms</b>						
<b>Total Animals with Malignant Neoplasms Uncertain Primary Site</b>						
<b>Total Animals with Neoplasms Uncertain - Benign or Malignant</b>						
<b>Total Uncertain Neoplasms</b>						

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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:** BAT

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**HSD Rat FEMALE**

**30.0 MG/KG**

**100.0 MG/KG**

---

**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