Experiment Number: 88148-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 3,3',4,4'-Tetrachloroazobenzene
CAS Number: 14047-09-7

Date Report Requested: 10/20/2014
Time Report Requested: 07:43:54
First Dose M/F: NA / NA
Lab: MBA

C Number: C88148
Lock Date: 01/19/1994
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: 88148-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/20/2014
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First Dose M/F: NA / NA
Lab: MBA

### P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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**F 344/N Rat Male**
**0 MG/KG**

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*TOTALS*

### Alimentary System
- Liver: + + + + + 5
- Stomach, Forestomach: + + + + + 5
- Stomach, Glandular: + + + + + 5

### Cardiovascular System
NONE

### Endocrine System
NONE

### General Body System
NONE

### Genital System
NONE

### Hematopoietic System
- Lymph Node, Mesenteric: + + + + + 5
- Spleen: + + + + + 5
- Thymus: + + + + + 5

### Integumentary System
NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
**Experiment Number:** 88148-01  
**Test Type:** 14-DAY  
**Route:** Gavage  
**Species/Strain:** Rat/F344/N  

**CAS Number:** 14047-09-7  

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

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 07:43:54  
**First Dose M/F:** NA / NA  
**Lab:** MBA  

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**TOTALS**

### Musculoskeletal System

**NONE**

### Nervous System

**NONE**

### Respiratory System

**NONE**

### Special Senses System

**NONE**

### Urinary System

**Kidney**  

| + + + + + | 5 |

**SYSTEMIC LESIONS**

**Multiple Organ**  

| + + + + + | 5 |

---

*i ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
A ..Autolysis precludes evaluation  
M ..Missing tissue  
X ..Lesion present  
I ..Insufficient tissue  
BLANK ..Not examined microscopically*
Experiment Number: 88148-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 3,3',4,4'-Tetrachloroazobenzene
CAS Number: 14047-09-7

Date Report Requested: 10/20/2014
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Lab: MBA

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*TOTALS

Alimentary System
NONE

Cardiovascular System
NONE

Endocrine System
NONE

General Body System
NONE

Genital System
NONE

Hematopoietic System
Spleen
+ + + + + 5

Integumentary System
NONE

Musculoskeletal System
NONE

Nervous System
NONE

*..Total animals with tissue examined microscopically; Total animals with tumor
M..Missing tissue
+..Tissue examined microscopically
A..Autolysis precludes evaluation
X..Lesion present
BLANK..Not examined microscopically
I..Insufficient tissue
Experiment Number: 88148-01
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P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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CAS Number: 14047-09-7

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Lab: MBA

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**F 344/N Rat Male**

**12.5 MG/KG**

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Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney

+ + + + + 5

SYSTEMIC LESIONS

Multiple Organ

+ + + + + 5

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
A ..Autolysis precludes evaluation
I ..Insufficient tissue
M ..Missing tissue
X ..Lesion present
BLANK ..Not examined microscopically
Experiment Number: 88148-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/20/2014
Time Report Requested: 07:43:54
First Dose M/F: NA / NA
Lab: MBA

F 344/N Rat Male
32 MG/KG

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*TOTALS

Alimentary System
NONE

Cardiovascular System
NONE

Endocrine System
NONE

General Body System
NONE

Genital System
NONE

Hematopoietic System
Spleen + + + + + 5

Integumentary System
NONE

Musculoskeletal System
NONE

Nervous System
NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
M ..Missing tissue
+ ..Tissue examined microscopically
A ..Autolysis precludes evaluation
X ..Lesion present
BLANK ..Not examined microscopically
I ..Insufficient tissue
Experiment Number: 88148-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 3,3',4,4'-Tetrachloroazobenzene
CAS Number: 14047-09-7

Date Report Requested: 10/20/2014
Time Report Requested: 07:43:54
First Dose M/F: NA / NA
Lab: MBA

F 344/N Rat Male
32 MG/KG

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Respiratory System
NONE

Special Senses System
NONE

Urinary System

Kidney
+ + + + + 5

SYSTEMIC LESIONS

Multiple Organ
+ + + + + 5

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
M ..Missing tissue
A ..Autolysis precludes evaluation
X ..Lesion present
I ..Inssufficient tissue
BLANK ..Not examined microscopically

Page 7
Experiment Number: 88148-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/20/2014
Time Report Requested: 07:43:54
First Dose M/F: NA / NA
Lab: MBA

### P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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**F 344/N Rat Male**

**80 MG/KG**

*TOTALS*

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

Spleen + + + + + 5

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

---

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
A ..Autolysis precludes evaluation
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
BLANK ..Not examined microscopically

Page 8
Experiment Number: 88148-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 3,3',4,4'-Tetrachloroazobenzene
CAS Number: 14047-09-7

Date Report Requested: 10/20/2014
Time Report Requested: 07:43:54
First Dose M/F: NA / NA
Lab: MBA

Respiratory System
NONE

Special Senses System
NONE

Urinary System
Kidney
+ + + + + 5

SYSTEMIC LESIONS
Multiple Organ
+ + + + + 5

* .Total animals with tissue examined microscopically; Total animals with tumor
  M .Missing tissue
  + .Tissue examined microscopically
  A .Autolysis precludes evaluation
  X .Lesion present
  I .Insufficient tissue
  BLANK .Not examined microscopically
Experiment Number: 88148-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/20/2014
Time Report Requested: 07:43:54
First Dose M/F: NA / NA
Lab: MBA

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F 344/N Rat Male
200 MG/KG

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*TOTALS*

Alimentary System

Liver

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Spleen

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

---

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
A ..Autolysis precludes evaluation
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
BLANK ..Not examined microscopically
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| SYSTEMIC LESIONS | Multiple Organ + + + + 5 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
X ..Lesion present
I ..Insufficient tissue
P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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

F 344/N Rat Male
500 MG/KG

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ANIMAL ID

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*TOTALS

Alimentary System

Liver + + + + + 5
Stomach, Foregut + + + + + 5
Stomach, Glandular + + + + + 5

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Lymph Node, Mesenteric + + + + + 5
Spleen + + + + + 5
Thymus + + + + + 5

Integumentary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
M ..Missing tissue
+ ..Tissue examined microscopically
A ..Autolysis precludes evaluation
X ..Lesion present
I ..Insufficient tissue
BLANK ..Not examined microscopically
**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

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*TOTALS*  

**Musculoskeletal System**  
NONE  

**Nervous System**  
NONE  

**Respiratory System**  
NONE  

**Special Senses System**  
NONE  

**Urinary System**  
Kidney  
+ + + + +  

**SYSTEMIC LESIONS**  
Multiple Organ  
+ + + + +  

5  

***END OF MALE DATA***  

* ..Total animals with tissue examined microscopically; Total animals with tumor  
M ..Missing tissue  
+ ..Tissue examined microscopically  
A ..Autolysis precludes evaluation  
X ..Lesion present  
BLANK ..Not examined microscopically  
I ..Insufficient tissue
Experiment Number: 88148-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/20/2014
Time Report Requested: 07:43:54
First Dose M/F: NA / NA
Lab: MBA

F 344/N Rat Female
0 MG/KG

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*TOTALS

Alimentary System
Liver + + + + + 5
Stomach, Forestomach + + + + + 5
Stomach, Glandular + + + + + 5

Cardiovascular System
NONE

Endocrine System
NONE

General Body System
NONE

Genital System
NONE

Hematopoietic System
Lymph Node, Mesenteric + + + + + 5
Spleen + + + + + 5
Thymus + + + + + 5

Integumentary System
NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
I ..Insufficient tissue
F 344/N Rat Female
0 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |
|            | 7 | 7 | 7 | 7 | 7 |

| ANIMAL ID | 0 | 0 | 0 | 0 | 0 |
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|           | 1 | 2 | 3 | 4 | 5 |

**Musculoskeletal System**

NONE

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

Kidney + + + + + 5

**SYSTEMIC LESIONS**

Multiple Organ + + + + + 5

---

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

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

**Experiment Number:** 88148-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N  
**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 07:43:54  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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* Totals

**Alimentary System**
- **Liver**
  + 1

**Cardiovascular System**
- NONE

**Endocrine System**
- NONE

**General Body System**
- NONE

**Genital System**
- NONE

**Hematopoietic System**
- Spleen
  + + + + + 5

**Integumentary System**
- NONE

**Musculoskeletal System**
- NONE

**Nervous System**
- NONE

---

* ..Total animals with tissue examined microscopically; Total animals with tumor  
  M ..Missing tissue  
  + ..Tissue examined microscopically  
  A ..Autolysis precludes evaluation  
  X ..Lesion present  
  BLANK ..Not examined microscopically  
  I ..Insufficient tissue
Respiratory System
NONE

Special Senses System
NONE

Urinary System
NONE

SYSTEMIC LESIONS

Multiple Organ + + + + + 5
Experiment Number: 88148-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 3',3,4,4'-Tetrachloroazobenzene
CAS Number: 14047-09-7

Date Report Requested: 10/20/2014
Time Report Requested: 07:43:54
First Dose M/F: NA / NA
Lab: MBA

F 344/N Rat Female
32 MG/KG

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*TOTALS

Alimentary System
NONE

Cardiovascular System
NONE

Endocrine System
NONE

General Body System
NONE

Genital System
NONE

Hematopoietic System

| Spleen | + | + | + | + | 5 |

Integumentary System
NONE

Musculoskeletal System
NONE

Nervous System
NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
M ..Missing tissue
+ ..Tissue examined microscopically
A ..Autolysis precludes evaluation
X ..Lesion present
I ..Insufficient tissue
BLANK ..Not examined microscopically
F 344/N Rat Female
32 MG/KG

Respiratory System
NONE

Special Senses System
NONE

Urinary System
NONE

SYSTEMIC LESIONS

Multiple Organ
+ + + + + 5

* ..Total animals with tissue examined microscopically; Total animals with tumor
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### P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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

**CAS Number:** 14047-09-7

---

**Test Type:** 14-DAY

**Experiment Number:** 88148-01

**Route:** GAVAGE

**Species/Strain:** Rat/F 344/N

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 07:43:54

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

**Lab:** MBA

---

#### F 344/N Rat Female

**80 MG/KG**

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*TOTALS*

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### Alimentary System

**NONE**

### Cardiovascular System

**NONE**

### Endocrine System

**NONE**

### General Body System

**NONE**

### Genital System

**NONE**

### Hematopoietic System

**NONE**

#### Spleen

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**5**

### Integumentary System

**NONE**

### Musculoskeletal System

**NONE**

### Nervous System

**NONE**

---

* ..Total animals with tissue examined microscopically; Total animals with tumor

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X ..Lesion present

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**Experiment Number:** 88148-01  
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**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ + + + + + 5

---

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
I ..Insufficient tissue
M ..Missing tissue

Page 21
Experiment Number: 88148-01  
Test Type: 14-DAY  
Route: GAVAGE  
Species/Strain: Rat/F 344/N  

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
Test Compound: 3,3',4,4'-Tetrachloroazobenzene  
CAS Number: 14047-09-7  

Date Report Requested: 10/20/2014  
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First Dose M/F: NA / NA  
Lab: MBA  

DAY ON TEST | 0 | 0 | 0 | 0 | 0  
---|---|---|---|---|---  
F 344/N Rat Female | 0 | 0 | 0 | 0 | 0  
200 MG/KG | 1 | 1 | 1 | 1 | 1  

ANIMAL ID | 0 | 0 | 0 | 0 | 0  
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*TOTALS  

Alimentary System  
Liver + 1  

Cardiovascular System  
NONE  

Endocrine System  
NONE  

General Body System  
NONE  

Genital System  
NONE  

Hematopoietic System  
Spleen + + + + + 5  

Integumentary System  
NONE  

Musculoskeletal System  
NONE  

Nervous System  
NONE  

* ...Total animals with tissue examined microscopically; Total animals with tumor  
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**Test Compound:** 3,3',4,4'-Tetrachloroazobenzene  
**CAS Number:** 14047-09-7

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**F 344/N Rat Female**  
**200 MG/KG**

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**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ + + + + + 5

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### Day On Test

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### Totals

**Alimentary System**
- Liver: + + + + + 5
- Stomach, Forestomach: + + + + + 5
- Stomach, Glandular: + + + + + 5

**Cardiovascular System**
- NONE

**Endocrine System**
- NONE

**General Body System**
- NONE

**Genital System**
- Ovary: + 1

**Hematopoietic System**
- Lymph Node, Mesenteric: + + + + + 5
- Spleen: + + + + + 5
- Thymus: + + + + + 5

**Integumentary System**
- NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
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### F 344/N Rat Female

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#### Musculoskeletal System

- **NONE**

#### Nervous System

- **NONE**

#### Respiratory System

- **NONE**

#### Special Senses System

- **NONE**

#### Urinary System

- **Kidney**
  - +
  - +
  - +
  - +
  - +
  - **5**

**SYSTEMIC LESIONS**

- **Multiple Organ**
  - +
  - +
  - +
  - +
  - +
  - **5**

**END OF REPORT**