Experiment Number: 93022-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 2,4-Decadienal
CAS Number: 25152-84-5

Date Report Requested: 10/18/2014
Time Report Requested: 15:39:24
First Dose M/F: NA / NA
Lab: MBA

C Number: C93022
Lock Date: 03/01/1996
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: NONE
**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

**Test Compound:** 2,4-Decadienal  
**CAS Number:** 25152-84-5

---

**Species/Strain:** Rat/F 344/N  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Experiment Number:** 93022-01  
**First Dose M/F:** NA / NA

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 15:39:24  
**Lab:** MBA

---

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

### Cardiovascular System
- NONE

### Endocrine System
- NONE

### General Body System
- NONE

### Genital System
- NONE

### Hematopoietic System
- NONE

### Integumentary System
- NONE

### Musculoskeletal System
- NONE

### Nervous System
- NONE

---

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ ..Tissue examined microscopically  
M ..Missing tissue  
X ..Lesion present  
A ..Autolysis precludes evaluation  
I ..Insufficient tissue  
BLANK ..Not examined microscopically  
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1) Minimal 2) Mild 3) Moderate 4) Marked
Experiment Number: 93022-01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: 2,4-Decadienal
CAS Number: 25152-84-5

Date Report Requested: 10/18/2014
Time Report Requested: 15:39:24
First Dose M/F: NA / NA
Lab: MBA

DAY ON TEST

F 344/N Rat Male
0.0 MG/KG

ANIMAL ID

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Respiratory System
NONE

Special Senses System
NONE

Urinary System

Kidney

+ + + + + 5

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

1-4 ..Lesion qualified as:
1) Minimal  2) Mild
2) Moderate  3) Marked
Experiment Number: 93022-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 2,4-Decadienal
CAS Number: 25152-84-5

Date Report Requested: 10/18/2014
Time Report Requested: 15:39:24
First Dose M/F: NA / NA
Lab: MBA

DAY ON TEST
F 344/N Rat Male
45.0 MG/KG

ANIMAL ID

*TOTALS

Alimentary System
NONE

Cardiovascular System
NONE

Endocrine System
NONE

General Body System
NONE

Genital System
NONE

Hematopoietic System
NONE

Integumentary System
NONE

Musculoskeletal System
NONE

Nervous System
NONE

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

1-4 ..Lesion qualified as:
1) Minimal
2) Mild
3) Moderate
4) Marked
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**Respiratory System**
- NONE

**Special Senses System**
- NONE

**Urinary System**
- NONE
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**Alimentary System**
- NONE

**Cardiovascular System**
- NONE

**Endocrine System**
- NONE

**General Body System**
- NONE

**Genital System**
- NONE

**Hematopoietic System**
- NONE

**Integumentary System**
- NONE

**Musculoskeletal System**
- NONE

**Nervous System**
- NONE

---

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

1-4 ..Lesion qualified as:
1) Minimal
2) Mild
3) Moderate
4) Marked

---

Page 6
DAY ON TEST

F 344/N Rat Male
133.0 MG/KG

ANIMAL ID

Respiratory System
NONE

Special Senses System
NONE

Urinary System
NONE

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

1-4 ..Lesion qualified as:
1) Minimal  2) Mild  3) Moderate  4) Marked
P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: 2,4-Decadienal  
CAS Number: 25152-84-5

Experiment Number: 93022-01  
Test Type: 14-DAY  
Route: GAVAGE  
Species/Strain: Rat/F 344/N  
Date Report Requested: 10/18/2014  
Time Report Requested: 15:39:24  
First Dose M/F: NA / NA  
Lab: MBA

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*TOTALS

**Alimentary System**

- Stomach, Forestomach: + + + + +, 5

**Cardiovascular System**

- NONE

**Endocrine System**

- NONE

**General Body System**

- NONE

**Genital System**

- NONE

**Hematopoietic System**

- NONE

**Integumentary System**

- NONE

**Musculoskeletal System**

- NONE

**Nervous System**

- NONE

---

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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BLANK ..Not examined microscopically
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1) Minimal  2) Mild
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### Experiment Number: 93022-01  
### Test Type: 14-DAY  
### Route: GAVAGE  
### Species/Strain: Rat/F 344/N  
### Test Compound: 2,4-Decadienal  
### CAS Number: 25152-84-5  
### Date Report Requested: 10/18/2014  
### Time Report Requested: 15:39:24  
### Lab: MBA

#### F 344/N Rat Male  
1200.0 MG/KG

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*TOTALS*

**Alimentary System**

- **Liver**: + + + + + 5
- **Stomach, Forestomach**: + + + + + 5
- **Epithelium, Hyperplasia, Diffuse**: 3 3 3 3 3 5 3.0
- **Ulcer, Chronic Active, Focal**: 4 4 4 2 4 5 3.6

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

---

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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M ..Missing tissue  
1-4 ..Lesion qualified as:  
1) Minimal  3) Moderate  
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**Experiment Number:** 93022-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

### P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

**Test Compound:** 2,4-Decadienal  
**CAS Number:** 25152-84-5

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 15:39:24  
**First Dose M/F:** NA / NA  
**Lab:** MBA

#### F 344/N Rat Male

**1200.0 MG/KG**

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*TOTALS*

**NONE**  
Nervous System: NONE  
Respiratory System: NONE  
Special Senses System: NONE  
Urinary System: NONE  

Kidney: + + + + + 5

---

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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M ..Missing tissue  
X ..Lesion present  
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BLANK ..Not examined microscopically  
1-4 ..Lesion qualified as:  
1) Minimal  
2) Mild  
3) Moderate  
4) Marked*
**Experiment Number:** 93022-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N  

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**Test Compound:** 2,4-Decadienal  
**CAS Number:** 25152-84-5  

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 15:39:24  
**First Dose M/F:** NA / NA  
**Lab:** MBA  

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

### Alimentary System

- Intestine Small, Ileum
  - A 0
- Liver
  - + + + + + 5
- Stomach, Foregut
  - + + A 5
- Ulcer, Acute, Diffuse
  - 4 4 4 4 5 4.0
- Stomach, Glandular
  - + 1

### Cardiovascular System

- NONE

### Endocrine System

- NONE

### General Body System

- NONE

### Genital System

- NONE

### Hematopoietic System

- Thymus
  - + 1
- Hemorrhage
  - 1 1 1.0

### Integumentary System

- Skin
  - + M 1

---

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+ ..Tissue examined microscopically
M ..Missing tissue
1-4 ..Lesion qualified as:
1) Minimal
2) Mild
3) Moderate
4) Marked
X ..Lesion present
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
I ..Insufficient tissue

Page 12
Experiment Number: 93022-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

Date Report Requested: 10/18/2014
Time Report Requested: 15:39:24
First Dose M/F: NA / NA
Lab: MBA

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 2,4-Decadienal
CAS Number: 25152-84-5

F 344/N Rat Male
3600.0 MG/KG

ANIMAL ID

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*TOTALS

Musculoskeletal System
NONE

Nervous System
NONE

Respiratory System
NONE

Special Senses System
NONE

Urinary System

Kidney
+ + + + A 4

***END OF MALE DATA***
Experiment Number: 93022-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

**Test Compound:** 2,4-Decadienal
**CAS Number:** 25152-84-5

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

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

**Cardiovascular System**
NONE

**Endocrine System**
NONE

**General Body System**
NONE

**Genital System**
NONE

**Hematopoietic System**
NONE

**Integumentary System**
NONE

**Musculoskeletal System**
NONE

**Nervous System**

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
M ..Missing tissue
X ..Lesion present
A ..Autolysis precludes evaluation
I ..Insufficient tissue
BLANK ..Not examined microscopically
1-4 ..Lesion qualified as:
   1) Minimal  2) Mild  3) Moderate  4) Marked
## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

**Test Compound:** 2,4-Decadienal  
**CAS Number:** 25152-84-5

### F 344/N Rat Female  
**0.0 MG/KG**

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|              | 1 | 2 | 3 | 4 | 5 |

*TOTALS*

## Respiratory System

NONE

## Special Senses System

NONE

## Urinary System

### Kidney

+ + + + + 5

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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BLANK ..Not examined microscopically
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1) Minimal  
2) Mild  
3) Moderate  
4) Marked
**Experiment Number:** 93022-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

**Test Compound:** 2,4-Decadienal  
**CAS Number:** 25152-84-5

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 15:39:24  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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**DAYS ON TEST**

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**Experiment Number:** 93022-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

**Test Compound:** 2,4-Decadienal  
**CAS Number:** 25152-84-5

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 15:39:24  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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**DAY ON TEST**

**F 344/N Rat Female**  
**45.0 KG/KG**

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BLANK ..Not examined microscopically  
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3) Moderate  
4) Marked

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Page 17
**DAY ON TEST**

**F 344/N Rat Female**

**133.0 MG/KG**

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**Experiment Number:** 93022-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

**Test Compound:** 2,4-Decadienal  
**CAS Number:** 25152-84-5

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 15:39:24  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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**Experiment Number:** 93022-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**Test Compound:** 2,4-Decadienal  
**CAS Number:** 25152-84-5

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 15:39:24  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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

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*TOTALS*

---

**Alimentary System**

- Stomach, Forestomach: + + + + + 5

---

**Cardiovascular System**

NONE

---

**Endocrine System**

NONE

---

**General Body System**

NONE

---

**Genital System**

NONE

---

**Hematopoietic System**

NONE

---

**Integumentary System**

NONE

---

**Musculoskeletal System**

NONE

---

**Nervous System**

NONE

---

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Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 2,4-Decadienal
CAS Number: 25152-84-5

Date Report Requested: 10/18/2014
Time Report Requested: 15:39:24
First Dose M/F: NA / NA
Lab: MBA

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**TOTALS**

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

*..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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### P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

**Test Compound:** 2,4-Decadienal  
**CAS Number:** 25152-84-5

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*TOTALS*

**Alimentary System**

- **Liver**: + + + + + 5  
- **Stomach, Foregut**: + + + + + 5  
- **Epithelium, Hyperplasia, Diffuse**: 3 3 3 3 3 5 3.0  
- **Inflammation, Chronic Active**: 4 1 4.0  
- **Ulcer, Chronic Active, Focal**: 4 4 4 4 4 4.0  

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

---

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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### P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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#### F 344/N Rat Female

**1200.0 MG/KG**

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- Kidney: + + + + + 5

---

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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M ..Missing tissue
X ..Lesion present
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I ..Insufficient tissue
BLANK ..Not examined microscopically

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2) Mild  4) Marked
**Experiment Number:** 93022-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

---

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

**Test Compound:** 2,4-Decadienal  
**CAS Number:** 25152-84-5

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**F 344/N Rat Female**  
**3600.0 MG/KG**

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*TOTALS*

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**Alimentary System**

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**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

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**Integumentary System**

| Skin | + | + | 2 |

**Musculoskeletal System**

---

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  1) Minimal  
  2) Mild  
  3) Moderate  
  4) Marked
F 344/N Rat Female
3600.0 MG/KG

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*TOTALS

Nervous System
NONE

Respiratory System
NONE

Special Senses System
NONE

Urinary System

Kidney + + + A + 4

** END OF REPORT **