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<th>Test Compound: 5-(Hydroxymethyl)-2-furfural</th>
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<td>CAS Number: 67-47-0</td>
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<td>Date Report Requested: 10/16/2014</td>
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<td>Time Report Requested: 17:17:40</td>
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Experiment Number: 95011-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

**Date Report Requested:** 10/16/2014
**Time Report Requested:** 17:17:40
**First Dose M/F:** NA / NA
**Lab:** BAT

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

**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
+ ..Tissue examined microscopically
M ..Missing tissue
1-4 ..Lesion qualified as:
1) Minimal  3) Moderate
2) Mild   4) Marked
X ..Lesion present
A ..Autolysis precludes evaluation
I ..Insufficient tissue
BLANK ..Not examined microscopically
**Experiment Number:** 95011-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N  

**Test Compound:** 5-(Hydroxymethyl)-2-furfural  
**CAS Number:** 67-47-0  

**Date Report Requested:** 10/16/2014  
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**First Dose M/F:** NA / NA  
**Lab:** BAT

### Non-Neoplastic Lesions by Individual Animal

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### F 344/N Rat Male

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### Totals

- **Nervous System:** NONE
- **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
Experiment Number: 95011-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

Date Report Requested: 10/16/2014
Time Report Requested: 17:17:40
First Dose M/F: NA / NA
Lab: BAT

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

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*TOTALS*

### Alimentary System

- **Intestine Large, Colon**: + + + + + 5
- **Liver**: + + + + + 5
- **Hepatodiaphragmatic Nodule**: X 1
- **Stomach, Forestomach**: + + + + + 5
- **Stomach, Glandular**: + + + + + 5

### 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
+ ..Tissue examined microscopically
X ..Lesion present
M ..Missing tissue
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: 95011-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

Date Report Requested: 10/16/2014
Time Report Requested: 17:17:40
First Dose M/F: NA / NA
Lab: BAT

* ..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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**TOTALS**

Musculoskeletal System
NONE

Nervous System
NONE

Respiratory System
NONE

Special Senses System
NONE

Urinary System
NONE
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**TOTALS**

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<td>Cardiovascular System</td>
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<td>Endocrine System</td>
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* ..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
1-4 ..Lesion qualified as:
   1) Minimal
   2) Mild
   3) Moderate
   4) Marked
**Experiment Number:** 95011-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**Test Compound:** 5-(Hydroxymethyl)-2-furfural  
**CAS Number:** 67-47-0  
**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 17:17:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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

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**TOTALS**

|                | 2 | 2 | 2 | 2 | 2 |

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

- **Nervous System**: NONE  
- **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  
M ..Missing tissue  
1-4 ..Lesion qualified as:  
A ..Autolysis precludes evaluation  
1) Minimal  3) Moderate  
X ..Lesion present  
2) Mild  4) Marked  
I ..Insufficient tissue  
BLANK ..Not examined microscopically
Experiment Number: 95011-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

Date Report Requested: 10/16/2014
Time Report Requested: 17:17:40
First Dose M/F: NA / NA
Lab: BAT

**F 344/N Rat Male**

**375 MG/KG**

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**TOTALS**

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<td>Stomach, Glandular</td>
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**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
+ ..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

Page 8
**Experiment Number:** 95011-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**Test Compound:** 5-(Hydroxymethyl)-2-furfural  
**CAS Number:** 67-47-0

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 17:17:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 6 | 7 | 8 | 9 | 0 |
| F 344/N Rat Male |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 375 MG/KG    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**Musculoskeletal System**  
NONE

**Nervous System**  
NONE

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

---

Page 9
## Experiment Number: 95011-01

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

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

**Test Compound:** 5-(Hydroxymethyl)-2-furfural  
**CAS Number:** 67-47-0

### Date Report Requested: 10/16/2014  
**Time Report Requested:** 17:17:40

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

### F 344/N Rat Male  
**750 MG/KG**

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*TOTALS*

### Alimentary System

- Intestine Large, Colon: + + + + + 5
- Liver: + + + + + 5
- Stomach, Foregut: + + + + + 5
- Stomach, Glandular: + + + + + 5

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

Page 10
**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

**Test Compound:** 5-(Hydroxymethyl)-2-furfural

**CAS Number:** 67-47-0

**Experiment Number:** 95011-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N  
**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 17:17:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**Nervous System**

NONE

**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
M ..Missing tissue
X ..Lesion present
A ..Autolysis precludes evaluation
I ..Insufficient tissue
BLANK ..Not examined microscopically

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

Page 11
**Experiment Number:** 95011-01  
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**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N  
**Date Report Requested:** 10/16/2014  
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**First Dose M/F:** NA / NA  
**Test Compound:** 5-(Hydroxymethyl)-2-furfural  
**CAS Number:** 67-47-0  
**Lab:** BAT

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### Alimentary System

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<td>Stomach, Forestomach</td>
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### 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  
X ..Lesion present  
A ..Autolysis precludes evaluation  
I ..Insufficient tissue  
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1-4 ..Lesion qualified as:  
1) Minimal  2) Mild  3) Moderate  4) Marked
Experiment Number: 95011-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

Date Report Requested: 10/16/2014
Time Report Requested: 17:17:40
First Dose M/F: NA / NA
Lab: BAT

F 344/N Rat Male
1500 MG/KG

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*TOTALS*

NONE
Nervous System
NONE
Respiratory System
NONE
Special Senses System
NONE
Urinary System
NONE

***END OF MALE DATA***

* ..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  3) Moderate
2) Mild  4) Marked
**Experiment Number:** 95011-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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**CAS Number:** 67-47-0

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 17:17:40  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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

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| *TOTALS | 1 | 2 | 3 | 4 | 5 |

### Alimentary System

- Intestine Large, Colon: + + + + + 5
- Liver: + + + + + 5
- Hepatodiaphragmatic Nodule: X 1
- Stomach, Forestomach: + + + + + 5
- Stomach, Glandular: + + + + + 5

### 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  
+ ..Tissue examined microscopically  
M ..Missing tissue  
1-4 ..Lesion qualified as:  
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1) Minimal 2) Mild 3) Moderate 4) Marked  
X ..Lesion present  
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**CAS Number:** 67-47-0  
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**Species/Strain:** Rat/F 344/N

**Date Report Requested:** 10/16/2014  
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**First Dose M/F:** NA / NA  
**Lab:** BAT

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**TOTALS**

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* ..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  3) Moderate  
2) Mild     4) Marked
F 344/N Rat Female
94 MG/KG

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*TOTALS

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

**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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1-4 ..Lesion qualified as:
1) Minimal 2) Mild 3) Moderate 4) Marked
I ..Insufficient tissue
BLANK ..Not examined microscopically
Experiment Number: 95011-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

Date Report Requested: 10/16/2014
Time Report Requested: 17:17:41
First Dose M/F: NA / NA
Lab: BAT

F 344/N Rat Female
94 MG/KG

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*TOTALS

Nervous System
NONE

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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I ..Insufficient tissue
BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:
1) Minimal  2) Mild
3) Moderate  4) Marked
## Experiment Number:
95011-01

## Test Type:
14-DAY

## Route:
GAVAGE

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

### Test Compound:
5-(Hydroxymethyl)-2-furfural

### CAS Number:
67-47-0

## Date Report Requested:
10/16/2014

## Time Report Requested:
17:17:41

## First Dose M/F:
NA / NA

## Lab:
BAT

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

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### ANIMAL ID

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*TOTALS

### Alimentary System

- Intestine Large, Colon
  - + + + + + 5
- Liver
  - + + + + + 5
- Hepatodiaphragmatic Nodule
  - X 1
- Stomach, Forestomach
  - + + + + + 5
- Stomach, Glandular
  - + + + + + 5

### 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
+ ..Tissue examined microscopically
M ..Missing tissue
1-4 ..Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked
X ..Lesion present
A ..Autolysis precludes evaluation
I ..Insufficient tissue
BLANK ..Not examined microscopically
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Species/Strain: Rat/F 344/N

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

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**Time Report Requested:** 17:17:41
**First Dose M/F:** NA / NA
**Lab:** BAT

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**F 344/N Rat Female**

**188 MG/KG**

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*TOTALS*

**Musculoskeletal System**

NONE

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

---

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Experiment Number: 95011-01
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CAS Number: 67-47-0

Date Report Requested: 10/16/2014
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First Dose M/F: NA / NA
Lab: BAT

F 344/N Rat Female
375 MG/KG

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*TOTALS

Alimentary System
- Intestine Large, Colon: + + + + + 5
- Liver: + + + + + 5
- Stomach, Forestomach: + + + + + 5
- Stomach, Glandular: + + + + + 5

Cardiovascular System
NONE

Endocrine System
NONE

General Body System
NONE

Genital System
NONE

Hematopoietic System
NONE

Integumentary System
NONE

Musculoskeletal System
NONE

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

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**TOTALS**

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* TOTALS

**Nervous System**

NONE

**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
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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**F 344/N Rat Female**

**750 MG/KG**

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*TOTALS*

**Alimentary System**

- Intestine Large, Colon: + + + + + (5)
- Liver: + + + + + (5)
- Stomach, Fore stomach: + + + + + (5)
- Stomach, Glandular: + + + + + (5)

**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

+..Tissue examined microscopically

M..Missing tissue

A..Autolysis precludes evaluation

1-4..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked
Day on Test

F 344/N Rat Female

750 MG/KG

Animal ID

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*Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade


Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

Test Compound: 5-(Hydroxymethyl)-2-furfural

CAS Number: 67-47-0

Date Report Requested: 10/16/2014

Time Report Requested: 17:17:41

First Dose M/F: NA / NA

Lab: BAT
**Experiment Number:** 95011-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N  
**Test Compound:** 5-(Hydroxymethyl)-2-furfural  
**CAS Number:** 67-47-0  
**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 17:17:41  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**F 344/N Rat Female**  
**1500 MG/KG**

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### Alimentary System

- Intestine Large, Colon: + + + + + 5
- Liver: + + + + + 5
- Stomach, Forestomach: + + + + + 5
- Stomach, Glandular: + + + + + 5

### Cardiovascular System

NONE

### Endocrine System

NONE

### General Body System

NONE

### Genital System

NONE

### Hematopoietic System

NONE

### Integumentary System

NONE

### Musculoskeletal System

NONE

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

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*TOTALS

F 344/N Rat Female
1500 MG/KG

Nervous System
NONE

Respiratory System
NONE

Special Senses System
NONE

Urinary System
NONE

** END OF REPORT **