

**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

**C Number:** C95011  
**Lock Date:** 11/10/1997  
**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: 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  
0 MG/KG**

|             |   |   |   |   |   |                |
|-------------|---|---|---|---|---|----------------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 2 | 2 | 2 | 2 | 2 |                |
|             | 2 | 2 | 2 | 2 | 2 |                |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 1 | 2 | 3 | 4 | 5 | <b>*TOTALS</b> |

**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**

\* ..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

**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**  
**0 MG/KG**

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|
|             | 0 | 0 | 0 | 0 | 0 |
|             | 2 | 2 | 2 | 2 | 2 |
|             | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |
|             | 0 | 0 | 0 | 0 | 0 |
|             | 0 | 0 | 0 | 0 | 0 |
|             | 0 | 0 | 0 | 0 | 0 |
|             | 1 | 2 | 3 | 4 | 5 |

**\*TOTALS**

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

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

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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

F 344/N Rat Male  
94 MG/KG

|             |   |   |   |   |   |         |
|-------------|---|---|---|---|---|---------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 2 | 2 | 2 | 2 | 2 |         |
|             | 2 | 2 | 2 | 2 | 2 |         |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 1 |         |
|             | 6 | 7 | 8 | 9 | 0 | *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

I ..Insufficient tissue

M ..Missing tissue

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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

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

|             |   |   |   |   |   |                |
|-------------|---|---|---|---|---|----------------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 2 | 2 | 2 | 2 | 2 |                |
|             | 2 | 2 | 2 | 2 | 2 |                |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 1 |                |
|             | 6 | 7 | 8 | 9 | 0 | <b>*TOTALS</b> |

**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

X ..Lesion present

I ..Insufficient tissue

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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

F 344/N Rat Male  
188 MG/KG

|             |   |   |   |   |   |         |
|-------------|---|---|---|---|---|---------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 2 | 2 | 2 | 2 | 2 |         |
|             | 2 | 2 | 2 | 2 | 2 |         |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 1 | 1 | 1 | 1 | 1 |         |
|             | 1 | 2 | 3 | 4 | 5 | *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

\* ..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

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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**

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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

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

|             |   |   |   |   |   |                |
|-------------|---|---|---|---|---|----------------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 2 | 2 | 2 | 2 | 2 |                |
|             | 2 | 2 | 2 | 2 | 2 |                |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 1 | 1 | 1 | 1 | 1 |                |
|             | 1 | 2 | 3 | 4 | 5 | <b>*TOTALS</b> |

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

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

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1-4 ..Lesion qualified as:

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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

F 344/N Rat Male  
375 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |         |
|-------------|---|---|---|---|---|---------|
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 2 | 2 | 2 | 2 | 2 |         |
|             | 2 | 2 | 2 | 2 | 2 |         |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 1 | 1 | 1 | 1 | 2 |         |
|             | 6 | 7 | 8 | 9 | 0 | *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

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 95011-01  
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 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**

|             |   |   |   |   |   |                |
|-------------|---|---|---|---|---|----------------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 2 | 2 | 2 | 2 | 2 |                |
|             | 2 | 2 | 2 | 2 | 2 |                |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 1 | 1 | 1 | 1 | 2 |                |
|             | 6 | 7 | 8 | 9 | 0 | <b>*TOTALS</b> |

**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

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

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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

F 344/N Rat Male  
750 MG/KG

|             |   |   |   |   |   |         |
|-------------|---|---|---|---|---|---------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 2 | 2 | 2 | 2 | 2 |         |
|             | 2 | 2 | 2 | 2 | 2 |         |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 2 | 2 | 2 | 2 | 2 |         |
|             | 1 | 2 | 3 | 4 | 5 | *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

\* ..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

**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**

|             |   |   |   |   |   |                |
|-------------|---|---|---|---|---|----------------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 2 | 2 | 2 | 2 | 2 |                |
|             | 2 | 2 | 2 | 2 | 2 |                |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 2 | 2 | 2 | 2 | 2 |                |
|             | 1 | 2 | 3 | 4 | 5 | <b>*TOTALS</b> |

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

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

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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

F 344/N Rat Male  
1500 MG/KG

|             |   |   |   |   |   |         |
|-------------|---|---|---|---|---|---------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 2 | 2 | 2 | 2 |         |
|             | 6 | 2 | 2 | 2 | 2 |         |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 2 | 2 | 2 | 2 | 3 |         |
|             | 6 | 7 | 8 | 9 | 0 | *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

\* ..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

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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**

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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

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

|             |   |   |   |   |   |                |
|-------------|---|---|---|---|---|----------------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 2 | 2 | 2 | 2 |                |
|             | 6 | 2 | 2 | 2 | 2 |                |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 2 | 2 | 2 | 2 | 3 |                |
|             | 6 | 7 | 8 | 9 | 0 |                |
|             |   |   |   |   |   | <b>*TOTALS</b> |

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

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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 Female**  
**0 MG/KG**

| DAY ON TEST | 0              | 0 | 0 | 0 | 0 |
|-------------|----------------|---|---|---|---|
|             | 0              | 0 | 0 | 0 | 0 |
|             | 2              | 2 | 2 | 2 | 2 |
|             | 2              | 2 | 2 | 2 | 2 |
| ANIMAL ID   | 0              | 0 | 0 | 0 | 0 |
|             | 0              | 0 | 0 | 0 | 0 |
|             | 0              | 0 | 0 | 0 | 0 |
|             | 3              | 3 | 3 | 3 | 3 |
|             | 1              | 2 | 3 | 4 | 5 |
|             | <b>*TOTALS</b> |   |   |   |   |

**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

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

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1) Minimal 3) Moderate

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 Species/Strain: Rat/F 344/N

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 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 Female**  
**0 MG/KG**

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|
|             | 0 | 0 | 0 | 0 | 0 |
|             | 2 | 2 | 2 | 2 | 2 |
|             | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |
|             | 0 | 0 | 0 | 0 | 0 |
|             | 0 | 0 | 0 | 0 | 0 |
|             | 3 | 3 | 3 | 3 | 3 |
|             | 1 | 2 | 3 | 4 | 5 |

\*TOTALS

**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

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

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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 Female  
94 MG/KG

|             |   |   |   |   |   |         |
|-------------|---|---|---|---|---|---------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 2 | 2 | 2 | 2 | 2 |         |
|             | 2 | 2 | 2 | 2 | 2 |         |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 3 | 3 | 3 | 3 | 4 |         |
|             | 6 | 7 | 8 | 9 | 0 | *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

\* ..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

**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**

|             |   |   |   |   |   |                |
|-------------|---|---|---|---|---|----------------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 2 | 2 | 2 | 2 | 2 |                |
|             | 2 | 2 | 2 | 2 | 2 |                |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 3 | 3 | 3 | 3 | 4 |                |
|             | 6 | 7 | 8 | 9 | 0 | <b>*TOTALS</b> |

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

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

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  
188 MG/KG

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |         |
|-------------|---|---|---|---|---|---------|
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 2 | 2 | 2 | 2 | 2 |         |
|             | 2 | 2 | 2 | 2 | 2 |         |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 4 | 4 | 4 | 4 | 4 |         |
|             | 1 | 2 | 3 | 4 | 5 | *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

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

**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**  
**188 MG/KG**

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|
|             | 0 | 0 | 0 | 0 | 0 |
|             | 2 | 2 | 2 | 2 | 2 |
|             | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |
|             | 0 | 0 | 0 | 0 | 0 |
|             | 0 | 0 | 0 | 0 | 0 |
|             | 4 | 4 | 4 | 4 | 4 |
|             | 1 | 2 | 3 | 4 | 5 |

\*TOTALS

**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

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

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  
375 MG/KG

|             |   |   |   |   |   |         |
|-------------|---|---|---|---|---|---------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 2 | 2 | 2 | 2 | 2 |         |
|             | 2 | 2 | 2 | 2 | 2 |         |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 4 | 4 | 4 | 4 | 5 |         |
|             | 6 | 7 | 8 | 9 | 0 | *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

\* ..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

**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**  
**375 MG/KG**

| DAY ON TEST | 0              | 0 | 0 | 0 | 0 |
|-------------|----------------|---|---|---|---|
|             | 0              | 0 | 0 | 0 | 0 |
|             | 2              | 2 | 2 | 2 | 2 |
|             | 2              | 2 | 2 | 2 | 2 |
| ANIMAL ID   | 0              | 0 | 0 | 0 | 0 |
|             | 0              | 0 | 0 | 0 | 0 |
|             | 0              | 0 | 0 | 0 | 0 |
|             | 4              | 4 | 4 | 4 | 5 |
|             | 6              | 7 | 8 | 9 | 0 |
|             | <b>*TOTALS</b> |   |   |   |   |

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

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

**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  
750 MG/KG**

|             |   |   |   |   |   |                |
|-------------|---|---|---|---|---|----------------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 2 | 2 | 2 | 2 | 2 |                |
|             | 2 | 2 | 2 | 2 | 2 |                |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 5 | 5 | 5 | 5 | 5 |                |
|             | 1 | 2 | 3 | 4 | 5 | <b>*TOTALS</b> |

**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**

\* ..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

**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**  
**750 MG/KG**

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|
|             | 0 | 0 | 0 | 0 | 0 |
|             | 2 | 2 | 2 | 2 | 2 |
|             | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |
|             | 0 | 0 | 0 | 0 | 0 |
|             | 0 | 0 | 0 | 0 | 0 |
|             | 5 | 5 | 5 | 5 | 5 |
|             | 1 | 2 | 3 | 4 | 5 |

**\*TOTALS**

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

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

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  
1500 MG/KG

|             |   |   |   |   |   |         |
|-------------|---|---|---|---|---|---------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 2 | 2 | 2 | 2 | 2 |         |
|             | 2 | 2 | 2 | 2 | 2 |         |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 |         |
|             | 5 | 5 | 5 | 5 | 6 |         |
|             | 6 | 7 | 8 | 9 | 0 | *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

\* ..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

**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  
1500 MG/KG**

|             |   |   |   |   |   |                |
|-------------|---|---|---|---|---|----------------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 2 | 2 | 2 | 2 | 2 |                |
|             | 2 | 2 | 2 | 2 | 2 |                |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 0 | 0 | 0 | 0 | 0 |                |
|             | 5 | 5 | 5 | 5 | 6 |                |
|             | 6 | 7 | 8 | 9 | 0 | <b>*TOTALS</b> |

NONE  
**Nervous System**

NONE  
**Respiratory System**

NONE  
**Special Senses System**

NONE  
**Urinary System**

NONE

**\*\* END OF REPORT \*\***

\* ..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