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### P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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

#### CAS Number:
67-47-0

---

**DAY ON TEST**

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**ANIMAL ID**

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---

**F 344/N Rat Male**

**0 MG/KG**

---

**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**

- Brain
  - + + + + 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

---

Page 2
Experiment Number: 95011-98
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

Date Report Requested: 10/18/2014
Time Report Requested: 18:37:31
First Dose M/F: NA / NA
Lab: BAT

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

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*TOTALS*

Spinal Cord + + + + + 5
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
Experiment Number: 95011-98
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

Date Report Requested: 10/18/2014
Time Report Requested: 18:37:31
First Dose M/F: NA / NA
Lab: BAT

F 344/N Rat Male
94 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**
NONE

**Integumentary System**
NONE

**Musculoskeletal System**
NONE

**Nervous System**

- Brain: + + + + + 5

* ..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
### P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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

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

**Spinal Cord**  
+ + + + + 5

**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
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
Experiment Number: 95011-98  
Test Type: 90-DAY  
Route: GAVAGE  
Species/Strain: Rat/F 344/N  
Test Compound: 5-(Hydroxymethyl)-2-furfural  
CAS Number: 67-47-0

Date Report Requested: 10/18/2014  
Time Report Requested: 18:37:31  
First Dose M/F: NA / NA  
Lab: BAT

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F 344/N Rat Male  
188  MG/KG

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*TOTALS

Alimentary System
NONE

Cardiovascular System
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Endocrine System
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General Body System
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Genital System
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Hematopoietic System
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Integumentary System
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Musculoskeletal System
NONE

Nervous System

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* ..Total animals with tissue examined microscopically; Total animals with tumor  
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M ..Missing tissue  
A ..Autolysis precludes evaluation  
X ..Lesion present  
I ..Insufficient tissue  
BLANK ..Not examined microscopically
**Experiment Number**: 95011-98  
**Test Type**: 90-DAY  
**Route**: GAVAGE  
**Species/Strain**: Rat/F 344/N  
**Test Compound**: 5-(Hydroxymethyl)-2-furfural  
**CAS Number**: 67-47-0

**Date Report Requested**: 10/18/2014  
**Time Report Requested**: 18:37:31  
**First Dose M/F**: NA / NA  
**Lab**: BAT

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**Spinal Cord**

+ + + + + 5

**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
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
BLANK ..Not examined microscopically

Page 7
P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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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

| Brain | + | + | + | + | + | 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
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**Experiment Number:** 95011-98  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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

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**DATE REPORT REQUESTED:** 10/18/2014  
**TIME REPORT REQUESTED:** 18:37:31  
**FIRST DOSE M/F:** NA / NA  
**LAB:** BAT

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**Spinal Cord**  
None

**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  
M ..Missing tissue  
+ ..Tissue examined microscopically  
A ..Autolysis precludes evaluation  
X ..Lesion present  
I ..Insufficient tissue  
BLANK ..Not examined microscopically
### Experiment Number: 95011-98
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

### P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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

### Date Report Requested: 10/18/2014  
**Time Report Requested:** 18:37:31  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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

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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

Brain  +  +  +  +  +

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**TOTALS**

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* ..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

Page 10
**Experiment Number:** 95011-98  
**Date Report Requested:** 10/18/2014

**Test Type:** 90-DAY  
**Time Report Requested:** 18:37:31

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

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

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

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**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** 5-(Hydroxymethyl)-2-furfural

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**Spinal Cord**  
+ + + + +  
**Respiratory System**  
**NONE**

**Special Senses System**  
**NONE**

**Urinary System**  
**NONE**

**SYSTEMIC LESIONS**

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* ..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: 95011-98
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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

Date Report Requested: 10/18/2014
Time Report Requested: 18:37:31
First Dose M/F: NA / NA
Lab: BAT

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*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

| Brain | + | + | + | + | + | 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
**Experiment Number:** 95011-98  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 18:37:31  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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

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**Spinal Cord**  
+ + + + + 5  

**Respiratory System**  
NONE

**Special Senses System**  
NONE

**Urinary System**  
NONE

**SYSTEMIC LESIONS**  

| Multiple Organ | + + + + + 5 |

***END OF MALE DATA***

---

* ..Total animals with tissue examined microscopically; Total animals with tumor  
M ..Missing tissue  
A ..Autolysis precludes evaluation  
X ..Lesion present  
I ..Insufficient tissue  
BLANK ..Not examined microscopically
**Experiment Number:** 95011-98  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N  
**Test Compound:** 5-(Hydroxymethyl)-2-furfural  
**CAS Number:** 67-47-0  
**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 18:37:31  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**Table: F 344/N Rat Female 0 MG/KG**

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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**
- Brain: + + + + 5

---

* ..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

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**Spinal Cord**

|              | + | + | + | + | + | 5 |

**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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X ..Lesion present
I ..Insufficient tissue
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A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
**Experiment Number:** 95011-98  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 18:37:31  
**First Dose M/F:** NA / NA  
**Lab:** BAT

### F 344/N Rat Female 94 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
- NONE

### Integumentary System
- NONE

### Musculoskeletal System
- NONE

### Nervous System
- Brain: + + + + + 5

---

* ..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
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*TOTALS

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
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
Experiment Number: 95011-98
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

Date Report Requested: 10/18/2014
Time Report Requested: 18:37:31
First Dose M/F: NA / NA
Lab: BAT

F 344/N Rat Female
188  MG/KG

ANIMAL ID
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ANIMAL ID
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*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

  Brain
  + + + + + 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
**Experiment Number:** 95011-98  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 18:37:31  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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

**Spinal Cord**
- +

**Respiratory System**
- NONE

**Special Senses System**
- NONE

**Urinary System**
- NONE

**SYSTEMIC LESIONS**

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* ..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:** 95011-98  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N  

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 18:37:31  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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| 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

---

**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**  
Brain: + + + + + 5

---

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
M ..Missing tissue
A ..Autolysis precludes evaluation
X ..Lesion present
BLANK ..Not examined microscopically
I ..Insufficient tissue
Experiment Number: 95011-98
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

Date Report Requested: 10/18/2014
Time Report Requested: 18:37:31
First Dose M/F: NA / NA
Lab: BAT

F 344/N Rat Female
375 MG/KG

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*TOTALS: Spinal Cord + + + + + 5
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
M ..Missing tissue
X ..Lesion present
I ..Insufficient tissue
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*TOTALS

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<td>Hematopoietic System</td>
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<td>Musculoskeletal System</td>
<td>NONE</td>
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<tr>
<td>Nervous System</td>
<td>Brain: 5</td>
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</table>

* ..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:** 95011-98  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N  

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

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

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 18:37:32  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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

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*TOTALS *

- **Spinal Cord**
  
  - Total animals with tissue examined microscopically: 5

- **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  
M ..Missing tissue  
A ..Autolysis precludes evaluation  
X ..Lesion present  
I ..Insufficient tissue  
BLANK ..Not examined microscopically
P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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

CAS Number: 67-47-0

**DAY ON TEST**

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**ANIMAL ID**

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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

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

Brain

+  +  +  +  +  5

---

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
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Page 24
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**TOTALS**

| Spinal Cord | + | + | + | + | + | 5 |

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ

+ | + | + | + | + | 5 |

**END OF REPORT**