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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

Date Report Requested: 10/16/2014
Time Report Requested: 17:16:14
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
P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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

**Intestine Large, Colon**
+ + + + + 5

**Liver**
+ + + + + 5

**Stomach, Foregut**
+ + + + + 5

**Stomach, Glandular**
+ + + + + 5

**Alimentary System**

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

- None
- Nervous System
  - 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
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
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BLANK ..Not examined microscopically
Experiment Number: 95011-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

Date Report Requested: 10/16/2014
Time Report Requested: 17:16:14
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
- 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 tumor
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X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
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First Dose M/F: NA / NA
Lab: BAT

F 344/N Rat Male
94 MG/KG

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*TOTALS

Nervous System
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
BLANK ..Not examined microscopically
I ..Insufficient tissue
### P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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

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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**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

---

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

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

**Experiment Number:** 95011-01

### F 344/N Rat Male

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*TOTALS

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**Nervous System**

- None

**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

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

I ..Insufficient tissue
Experiment Number: 95011-01
Test Type: 14-DAY
Route: GAVAGE
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P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

Date Report Requested: 10/16/2014
Time Report Requested: 17:16:14
First Dose M/F: NA / NA
Lab: BAT

**F 344/N Rat Male**
375  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

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
A ..Autolysis precludes evaluation
B ..Lesion present
I ..Insufficient tissue
M ..Missing 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  
**Time Report Requested:** 17:16:15  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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

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**SYSTEMIC LESIONS**

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

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

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

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**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

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*TOTALS

- **Nervous System**: None
- **Respiratory System**: None
- **Special Senses System**: None
- **Urinary System**: None
- **SYSTEMIC LESIONS**: None

- **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
Experimental Data:

- **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 Requested:** 10/16/2014
- **Time Requested:** 17:16:15
- **First Dose M/F:** NA / NA
- **Lab:** BAT

### 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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*TOTALS*

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

Nervous System
NONE

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

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

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F 344/N Rat Female
0 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 tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
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: 17:16:15  
First Dose M/F: NA / NA  
Lab: BAT

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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

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*TOTALS

F 344/N Rat Female  
0 MG/KG

Nervous System  
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  
BLANK ..Not examined microscopically  
I ..Insufficient tissue
**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

**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:** 17:16:15

**F 344/N Rat Female**  
**94 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

* ..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: 95011-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

Date Report Requested: 10/16/2014
Time Report Requested: 17:16:15
First Dose M/F: NA / NA
Lab: BAT

F 344/N Rat Female
94 MG/KG

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*TOTALS

NONE

Nervous System
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
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Page 17
Experiment Number: 95011-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

Date Report Requested: 10/16/2014
Time Report Requested: 17:16:15
First Dose M/F: NA / NA
Lab: BAT

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

Page 18
Experiment Number: 95011-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

Date Report Requested: 10/16/2014
Time Report Requested: 17:16:15
First Dose M/F: NA / NA
Lab: BAT

F 344/N Rat Female
188 MG/KG

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*TOTALS

Nervous System
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
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
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

* ..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:** 95011-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N  

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*TOTALS*

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

- **Nervous System:** 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  
 + ..Tissue examined microscopically  
 M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 X ..Lesion present  
 I ..Insufficient tissue  
 BLANK ..Not examined microscopically
P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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

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

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

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**F 344/N Rat Female**

**750 MG/KG**

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*TOTALS* 5 5 5 5 5 5 2 3 4 5

**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 tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
Experiment Number: 95011-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

Date Report Requested: 10/16/2014
Time Report Requested: 17:16:15
First Dose M/F: NA / NA
Lab: BAT

F 344/N Rat Female
750 MG/KG

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*TOTALS
NONE
Nervous System
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
+ ..Tissue examined microscopically
M ..Missing tissue
A ..Autolysis precludes evaluation
X ..Lesion present
I ..Insufficient tissue
BLANK ..Not examined microscopically
Experiment Number: 95011-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: 5-(Hydroxymethyl)-2-furfural
CAS Number: 67-47-0

Date Report Requested: 10/16/2014
Time Report Requested: 17:16:15
First Dose M/F: NA / NA
Lab: BAT

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ANIMAL ID
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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 tumor
+ ..Tissue examined microscopically
M ..Missing tissue
A ..Autolysis precludes evaluation
X ..Lesion present
BLANK ..Not examined microscopically
I ..Insufficient tissue
Experiment Number: 95011-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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

Date Report Requested: 10/16/2014
Time Report Requested: 17:16:15
First Dose M/F: NA / NA
Lab: BAT

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ANIMAL ID

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*TOTALS

**END OF REPORT**

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