Experiment Number: 96013-02
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: Melatonin
CAS Number: 73-31-4

Date Report Requested: 10/23/2014
Time Report Requested: 08:33:52
First Dose M/F: NA / NA
Lab: BAT

C Number: C96013
Lock Date: Not Entered.
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: 96013-02
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

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

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Date Report Requested: 10/23/2014
Time Report Requested: 08:33:52
First Dose M/F: NA / NA

Lab: BAT

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*TOTALS*

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<tr>
<th>System</th>
<th>Lesion Status</th>
<th>Tissues Examined</th>
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<tbody>
<tr>
<td>Alimentary System</td>
<td>NONE</td>
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<tr>
<td>Cardiovascular System</td>
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<tr>
<td>Endocrine System</td>
<td>Adrenal Cortex</td>
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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
Experiment Number: 96013-02
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

Test Compound: Melatonin
CAS Number: 73-31-4

Date Report Requested: 10/23/2014
Time Report Requested: 08:33:53
First Dose M/F: NA / NA
Lab: BAT

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P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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0 UG/KG      | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
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ANIMAL ID    | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
-------------|---|---|---|---|---|---|---|---|---|

*TOTALS

---

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

SYSTEMIC LESIONS

Multiple Organ + + + + + + + + 10

---

* ..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

---

Page 3
P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Melatonin
CAS Number: 73-31-4

DAY ON TEST

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LONG-EVANS Rat Male
5 UG/KG

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*TOTALS

Alimentary System
NONE

Cardiovascular System
NONE

Endocrine System
NONE

General Body System
NONE

Genital System
Testes + 1

Hematopoietic System
NONE

Integumentary System
Skin + 1

Musculoskeletal System
NONE

Nervous 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
### 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
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I ..Insufficient tissue

**TOTALS**
**Experiment Number:** 96013-02  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  

**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 08:33:53  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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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
- **Skin**
  - + 1

### Musculoskeletal System
- NONE

### Nervous System
- NONE

---

* ..Total animals with tissue examined microscopically; Total animals with tumor  
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M ..Missing tissue  
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## P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

| Test Compound: Melatonin | CAS Number: 73-31-4 |

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### SYSTEMIC LESIONS

#### Respiratory System

- NONE

#### Special Senses System

- NONE

#### Urinary System

- Kidney
  - + \(1\)

- Systemic Lesions
  - Multiple Organ
    - + \(2\)

---

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BLANK ..Not examined microscopically
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**Route:** GAVAGE  
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**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 08:33:53  
**First Dose M/F:** NA / NA  
**Lab:** BAT

### Alimentary System
- NONE

### Cardiovascular System
- NONE

### Endocrine System
- NONE

### General Body System
- NONE

### Genital System
- NONE

### Hematopoietic System
- NONE

### Integumentary System
- Skin: + 1

### Musculoskeletal System
- NONE

### Nervous System
- NONE

---

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID   | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
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**TOTALS**

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---

Page 8
Date Report Requested: 10/23/2014
Time Report Requested: 08:33:53

**Respiratory System**
- NONE

**Special Senses System**
- NONE

**Urinary System**
- NONE

**SYSTEMIC LESIONS**
- Multiple Organ: + 1

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P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Day ON TEST | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10
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2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2
8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8

ALIMENTARY SYSTEM

Liver + 1

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Mandibular + 1

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

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  + ..Tissue examined microscopically
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  I ..Insufficient tissue
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  A ..Autolysis precludes evaluation
  BLANK ..Not examined microscopically
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**LONG-EVANS Rat Male**

50,000 UG/KG

**ANIMAL ID**

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*TOTALS*

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

- **Multiple Organ**
  
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

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* ..Total animals with tissue examined microscopically; Total animals with tumor
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M ..Missing tissue
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BLANK ..Not examined microscopically
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**TOTALS**

### Alimentary System

NONE

### Cardiovascular System

NONE

### Endocrine System

- **Adrenal Cortex**: + + + + + + + + + + 10
- **Adrenal Medulla**: + + + + + + + + + + 10
- **Thyroid Gland**: + + + + + + + + + + 10

### General Body System

NONE

### Genital System

- **Epididymis**: + + + + + + + + + + 10
- **Preputial Gland**: + + + + + + + + + + 10
- **Prostate**: + + + + + + + + + + 10
- **Semenal Vesicle**: + + + + + + + + + + 10
- **Testes**: + + + + + + + + + + 10

### Hematopoietic System

- **Thymus**: + + + + + + + + + + 10

### Integumentary System

* ..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
**Day on Test**

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**MUSCULOSKELETAL SYSTEM**

- None

**NERVOUS SYSTEM**

- None

**RESPIRATORY SYSTEM**

- None

**SPECIAL SENSES SYSTEM**

- None

**URINARY SYSTEM**

- None

**SYSTEMIC LESIONS**

- None

**MULTIPLE ORGAN**

- + + + + + + + + 10

***End of Male Data***

---

* ..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
Experiment Number: 96013-02
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS
Test Compound: Melatonin
CAS Number: 73-31-4
Date Report Requested: 10/23/2014
Time Report Requested: 08:33:53
First Dose M/F: NA / NA
Lab: BAT

## PAGE 14

### DAY ON TEST

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**TOTALS**

### Alimentary System

NONE

### Cardiovascular System

NONE

### Endocrine System

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### General Body System

NONE

### Genital System

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### Hematopoietic System

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### Integumentary System

NONE

### Musculoskeletal System

NONE

---

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

**Test Compound:** Melatonin  
**CAS Number:** 73-31-4

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**Experiment Number:** 96013-02  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS

### Systemic Lesions

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

### SYSTEMIC LESIONS

**Multiple Organ**  
+ + + + + + + + + 10

* ..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

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 08:33:53  
**First Dose M/F:** NA / NA  
**Lab:** BAT
**Experiment Number:** 96013-02  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS

### Test Compound: Melatonin  
**CAS Number:** 73-31-4

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|             | 9 | 0 |

*TOTALS

#### Alimentary System
- NONE

#### Cardiovascular System
- NONE

#### Endocrine System
- NONE

#### General Body System
- NONE

#### Genital System
- NONE

#### Hematopoietic System
- NONE

#### Integumentary System
- Lymph Node, Mandibular + 1

#### Musculoskeletal System
- NONE

#### Nervous System
- NONE

---

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

**Test Compound:** Melatonin  
**CAS Number:** 73-31-4

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**ANIMAL ID**

LONG-EVANS Rat Female  
5 UG/KG

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*TOTALS*

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ + 1

---

* ..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
## Day on Test

**LONG-EVANS Rat Female**  
50 UG/KG

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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
D DAY ON TEST

LONG-EVANS Rat Female
50 UG/KG

ANIMAL ID

Respiratory System
NONE

Special Senses System
NONE

Urinary System
NONE

SYSTEMIC LESIONS

Multiple Organ 0

* ..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
DAY ON TEST
LONG-EVANS Rat Female
5000 UG/KG

Anatomical System

ALIMENTARY SYSTEM
NONE

CARDIOVASCULAR SYSTEM
NONE

ENDOCRINE SYSTEM
NONE

GENERAL BODY SYSTEM
NONE

GENITAL SYSTEM
NONE

HEMATOPOIETIC SYSTEM
NONE

INTEGUMENTARY SYSTEM
NONE

MUSCULOSKELETAL SYSTEM
NONE

NERVOUS SYSTEM
NONE

*..Total animals with tissue examined microscopically; Total animals with tumor
+..Tissue examined microscopically
X..Lesion present
I..Insufficient tissue
M..Missing tissue
A..Autolysis precludes evaluation
BLANK..Not examined microscopically
DAY ON TEST

LONG-EVANS Rat Female
5000 UG/KG

ANIMAL ID

---

*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ 0

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+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
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X ..Lesion present
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M ..Missing tissue
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### Experiment Number: 96013-02
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 08:33:53  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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#### DAY ON TEST

**LONG-EVANS Rat Female**  
**50,000 UG/KG**

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Page 23
Experiment Number: 96013-02
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

Test Compound: Melatonin
CAS Number: 73-31-4

Date Report Requested: 10/23/2014
Time Report Requested: 08:33:53
First Dose M/F: NA / NA
Lab: BAT

### Alimentary System
- NONE

### Cardiovascular System
- NONE

### Endocrine System
- Adrenal Cortex: + + + + + + + + + + 10
- Adrenal Medulla: + + + + + + + + + + 10
- Thyroid Gland: + + + + + + + + + + 10

### General Body System
- NONE

### Genital System
- Ovary: + + + + + + + + + + 10
- Uterus: + + + + + + + + + + 10

### Hematopoietic System
- Thymus: + + + + + + + + + + 10

### Integumentary System
- NONE

### Musculoskeletal System
- NONE

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**Day on Test**

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**ANIMAL ID**

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1 2 3 4 5 6 7 8 9

*TOTALS*

- **ALIMENTARY SYSTEM**: NONE
- **CARDIOVASCULAR SYSTEM**: NONE
- **ENDOCRINE SYSTEM**: Adrenal Cortex (10), Adrenal Medulla (10), Thyroid Gland (10)
- **GENERAL BODY SYSTEM**: NONE
- **GENITAL SYSTEM**: Ovary (10), Uterus (10)
- **HEMATOPOIETIC SYSTEM**: Thymus (10)
- **INTEGUMENTARY SYSTEM**: NONE
- **MUSCULOSKELETAL SYSTEM**: NONE

---

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M ..Missing tissue
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**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

**Test Compound:** Melatonin  
**CAS Number:** 73-31-4

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**LONG-EVANS Rat Female**  
**200,000 UG/KG**

**ANIMAL ID**

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*TOTALS*

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

**SYSTEMIC LESIONS**

- **Multiple Organ:** + + + + + + + + + + 10

**END OF REPORT** **

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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