<table>
<thead>
<tr>
<th>Experiment Number: 96013-04</th>
<th>Test Type: 90-DAY</th>
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<tbody>
<tr>
<td>Route: GAVAGE</td>
<td></td>
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<tr>
<td>Species/Strain: Rat/LONG-EVANS</td>
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</tbody>
</table>

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

<table>
<thead>
<tr>
<th>Date Report Requested: 10/21/2014</th>
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<tbody>
<tr>
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<tr>
<td>First Dose M/F: NA / NA</td>
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<td>Lab: BAT</td>
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<tbody>
<tr>
<td>Lock Date: 02/28/2003</td>
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<tr>
<td>Cage Range: All</td>
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<td>Study Gender: Both</td>
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Experiment Number: 96013-04  
Test Type: 90-DAY  
Route: GAVAGE  
Species/Strain: Rat/LONG-EVANS

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:50  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<table>
<thead>
<tr>
<th>ANIMAL ID: 111</th>
<th>TRT#: 1</th>
<th>SEX: Male</th>
<th>DAY ON TEST: 94</th>
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<tbody>
<tr>
<td>DOSE: 0 UG/KG</td>
<td>DISP: Terminal Sacrifice</td>
<td>HISTO: 0200701</td>
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**
- Adrenal Cortex
- Bone Marrow
- Eye
- Intestine Large, Rectum
- Islets, Pancreatic
- Lymph Node, Mesenteric
- Parathyroid Gland
- Salivary Glands
- Stomach, Fore stomach
- Thyroid Gland

**Adrenal Medulla**
- Brain
- Harderian Gland
- Intestine Small, Duodenum
- Liver
- Mammary Gland
- Pituitary Gland
- Seminal Vesicle
- Stomach, Glandular
- Trachea

**Blood Vessel**
- Epididymis
- Intestine Large, Cecum
- Intestine Small, Ileum
- Lung
- Nose
- Preputial Gland
- Skin
- Testes
- Urinary Bladder

**Bone**
- Esophagus
- Intestine Large, Colon
- Intestine Small, Jejunum
- Lymph Node, Mandibular
- Pancreas
- Prostate
- Spleen
- Thymus

**OBSERVATIONS**
- Heart
- Kidney

<table>
<thead>
<tr>
<th>Heart</th>
<th>Myocardium</th>
<th>Infiltration Cellular</th>
<th>Mononuclear Cl, Minimal</th>
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<tbody>
<tr>
<td>Kidney</td>
<td></td>
<td>Mineralization</td>
<td>Mild</td>
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<tr>
<td></td>
<td></td>
<td>Nephropathy</td>
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**PRIMARY CAUSE OF DEATH**

-
**ANIMAL ID:** 112  
**TRT#:** 1  
**SEX:** Male  
**DOSE:** 0 UG/KG  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200702

### ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**
- Adrenal Cortex
- Bone Marrow
- Eye
- Intestine Large, Rectum
- Islets, Pancreatic
- Mammary Gland
- Pituitary Gland
- Seminal Vesicle
- Stomach, Glandular
- Trachea
- Adrenal Medulla
- Brain
- Harderian Gland
- Intestine Small, Duodenum
- Liver
- Nose
- Preputial Gland
- Skin
- Testes
- Urinary Bladder
- Blood Vessel
- Epididymis
- Intestine Large, Cecum
- Intestine Small, Ileum
- Lymph Node, Mandibular
- Pancreas
- Prostate
- Spleen
- Thymus
- Bone
- Esophagus
- Intestine Large, Colon
- Intestine Small, Jejunum
- Lymph Node, Mesenteric
- Parathyroid Gland
- Salivary Glands
- Stomach, Foregut
- Thyroid Gland

### OBSERVATIONS

- Heart: Myocardium  
  - Infiltration Cellular: Mononuclear Cl, Minimal
  - Mineralization: Minimal
  - Inflammation: Chronic, Minimal
- Kidney
- Lung

### PRIMARY CAUSE OF DEATH
- **-**
<table>
<thead>
<tr>
<th>Organ and Accountable Site Status</th>
<th>Status</th>
<th>Organ and Accountable Site Status</th>
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<tr>
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<td>* Adrenal Medulla</td>
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<td>* Epididymis</td>
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<td>* Bone</td>
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<td>* Heart</td>
<td></td>
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<td></td>
<td>* Bone Marrow</td>
<td></td>
<td>* Intestine Small, Duodenum</td>
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<td></td>
<td></td>
<td>* Brain</td>
<td></td>
<td>* Kidney</td>
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<td></td>
<td>* Bone Marrow</td>
<td></td>
<td>* Lymph Node, Mesenteric</td>
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<tr>
<td></td>
<td></td>
<td>* Harderian Gland</td>
<td></td>
<td>* Parathyroid Gland</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>* Intestine Large, Rectum</td>
<td></td>
<td>* Salivary Glands</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Islets, Pancreatic</td>
<td></td>
<td>* Stomach, Foregut</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Lymph Node, Mandibular</td>
<td></td>
<td>* Thyroid Gland</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Lung</td>
<td></td>
<td>* Urinary Bladder</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Nose</td>
<td></td>
<td></td>
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<td></td>
<td>* Preputial Gland</td>
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<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>* Skin</td>
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<td></td>
<td>* Testes</td>
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<td></td>
<td></td>
<td>* Urinary Bladder</td>
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**PRIMARY CAUSE OF DEATH**

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<table>
<thead>
<tr>
<th>ORGAN AND ACCOUNTABLE SITE STATUS</th>
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<tbody>
<tr>
<td><strong>NORMAL</strong></td>
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<tr>
<td>* Adrenal Cortex</td>
</tr>
<tr>
<td>* Bone Marrow</td>
</tr>
<tr>
<td>* Harderian Gland</td>
</tr>
<tr>
<td>* Intestine Small, Duodenum</td>
</tr>
<tr>
<td>* Liver</td>
</tr>
<tr>
<td>* Mammary Gland</td>
</tr>
<tr>
<td>* Prostate</td>
</tr>
<tr>
<td>* Spleen</td>
</tr>
<tr>
<td>* Thymus</td>
</tr>
<tr>
<td>* Adrenal Medulla</td>
</tr>
<tr>
<td>* Epididymis</td>
</tr>
<tr>
<td>* Intestine Large, Cecum</td>
</tr>
<tr>
<td>* Intestine Small, Ileum</td>
</tr>
<tr>
<td>* Lung</td>
</tr>
<tr>
<td>* Nose</td>
</tr>
<tr>
<td>* Salivary Glands</td>
</tr>
<tr>
<td>* Stomach, Forestomach</td>
</tr>
<tr>
<td>* Thyroid Gland</td>
</tr>
<tr>
<td>* Blood Vessel</td>
</tr>
<tr>
<td>* Esophagus</td>
</tr>
<tr>
<td>* Intestine Large, Colon</td>
</tr>
<tr>
<td>* Intestine Small, Jejunum</td>
</tr>
<tr>
<td>* Lymph Node, Mandibular</td>
</tr>
<tr>
<td>* Pancreas</td>
</tr>
<tr>
<td>* Seminal Vesicle</td>
</tr>
<tr>
<td>* Stomach, Glandular</td>
</tr>
<tr>
<td>* Trachea</td>
</tr>
<tr>
<td>* Bone</td>
</tr>
<tr>
<td>* Eye</td>
</tr>
<tr>
<td>* Intestine Large, Rectum</td>
</tr>
<tr>
<td>* Islets, Pancreatic</td>
</tr>
<tr>
<td>* Lymph Node, Mesenteric</td>
</tr>
<tr>
<td>* Pituitary Gland</td>
</tr>
<tr>
<td>* Skin</td>
</tr>
<tr>
<td>* Testes</td>
</tr>
<tr>
<td>* Urinary Bladder</td>
</tr>
<tr>
<td><strong>MISSING</strong></td>
</tr>
<tr>
<td>* Parathyroid Gland</td>
</tr>
</tbody>
</table>

**OBSERVATIONS**

- Brain: Degeneration (unilateral) of optic nerve, Degeneration, Moderate
- Heart: Myocardium, Infiltration Cellular, Mononuclear CI, Minimal
- Kidney: Nephropathy, Minimal
- Preputial Gland: Tooth: Pulp, Malformation, Minimal

**PRIMARY CAUSE OF DEATH**

-
**ANIMAL ID:** 115  
**TRT#:** 1  
**DOSE:** 0 UG/KG  
**SEX:** Male  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200705

### ORGAN AND ACCOUNTABLE SITE STATUS

| NORMAL |  | Normal |  | Normal |  | Normal |
|----------------------|----------------------|----------------------|----------------------|----------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Foregut | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder |  |

### OBSERVATIONS

| Normal |  | Normal |  | Normal |
|----------------------|----------------------|----------------------|----------------------|
| * Liver | Inflammation | Chronic, Minimal |
| * Lung | Metaplasia | Osseous, Minimal |

**PRIMARY CAUSE OF DEATH**  
-
**ANIMAL ID:** 116  
**TRT#:** 1  
**DOSE:** 0 UG/KG  
**SEX:** Male  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200706

**ORGAN AND ACCOUNTABLE SITE STATUS**

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<tr>
<td>* Adrenal Cortex</td>
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<td>* Esophagus</td>
</tr>
<tr>
<td>* Harderian Gland</td>
<td>* Heart</td>
<td>* Intestine Large, Cecum</td>
</tr>
<tr>
<td>* Intestine Large, Rectum</td>
<td>* Intestine Small, Duodenum</td>
<td>* Intestine Small, Ileum</td>
</tr>
<tr>
<td>* Islets, Pancreatic</td>
<td>* Kidney</td>
<td>* Lung</td>
</tr>
<tr>
<td>* Lymph Node, Mesenteric</td>
<td>* Mammary Gland</td>
<td>* Nose</td>
</tr>
<tr>
<td>* Parathyroid Gland</td>
<td>* Pituitary Gland</td>
<td>* Preputial Gland</td>
</tr>
<tr>
<td>* Salivary Glands</td>
<td>* Seminal Vesicle</td>
<td>* Skin</td>
</tr>
<tr>
<td>* Stomach, Foregut</td>
<td>* Stomach, Glandular</td>
<td>* Testes</td>
</tr>
<tr>
<td>* Thyroid Gland</td>
<td>* Trachea</td>
<td>* Urinary Bladder</td>
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</tbody>
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**OBSERVATIONS**

<table>
<thead>
<tr>
<th>* Brain</th>
<th>Cranial Nerve</th>
<th>Gliosis</th>
<th>Minimal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note: Unilateral optic nerve gliosis</td>
<td></td>
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<tr>
<td>* Liver</td>
<td>Pulp</td>
<td>Inflammation</td>
<td>Chronic, Minimal</td>
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<tr>
<td>* Tooth</td>
<td></td>
<td>Malformation</td>
<td>Minimal</td>
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**PRIMARY CAUSE OF DEATH**

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<table>
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<th>DAY ON TEST: 94</th>
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<td>HISTO: 0200707</td>
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**NORMAL**

- * Adrenal Cortex
- * Adrenal Medulla
- * Bone Marrow
- * Epididymis
- * Harderian Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Prostate
- * Salivary Glands
- * Spleen
- * Stomach, Forestomach
- * Thymus
- * Thyroid Gland
- * Blood Vessel
- * Esophagus
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Pituitary Gland
- * Seminal Vesicle
- * Stomach, Glandular
- * Trachea
- * Bone
- * Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Nose
- * Preputial Gland
- * Skin
- * Testes
- * Urinary Bladder

**OBSERVATIONS**

- * Brain
  - Cranial Nerve
  - Gliosis
  - Minimal
  - Note: Unilateral optic nerve gliosis
- * Heart
  - Myocardium
  - Infiltration Cellular
  - Mononuclear Cl, Minimal
- * Kidney
  - Mineralization
  - Minimal
- * Liver
  - Inflammation
  - Chronic, Minimal
- * Lung
  - Inflammation
  - Chronic, Minimal
- Tooth
  - Pulp
  - Malformation
  - Minimal

**PRIMARY CAUSE OF DEATH**

-
ANIMAL ID: 118  TRT#: 1  SEX: Male  DAY ON TEST: 94

DOSE: 0 UG/KG  DISP: Terminal Sacrifice  HISTO: 0200708

NORMAL
* Adrenal Cortex
* Bone Marrow
* Harderian Gland
* Intestine Small, Duodenum
* Intestine Small, Ileum
* Intestine Large, Cecum
* Intestine Large, Colon
* Islets, Pancreatic
* Lymph Node, Mandibular
* Lymph Node, Mesenteric
* Parathyroid Gland
* Salivary Glands
* Stomach, Foregut
* Thyroid Gland

* Adrenal Medulla
* Epididymis
* Intestine Large, Cecum
* Intestine Small, Ileum
* Lymph Node, Mesenteric
* Pituitary Gland
* Seminal Vesicle
* Stomach, Glandular
* Trachea

* Blood Vessel
* Esophagus
* Intestine Large, Colon
* Intestine Small, Jejunum
* Mammary Gland
* Preputial Gland
* Skin
* Testes
* Urinary Bladder

* Bone
* Eye
* Intestine Large, Rectum
* Islets, Pancreatic
* Nose
* Prostate
* Spleen
* Thymus

OBSERVATIONS

Cranial Nerve

Degeneration

Mild

Heart

Myocardium

Infiltration Cellular

Mononuclear CI, Minimal

Kidney

Mineralization

Minimal

Liver

Nephropathy

Minimal

Lung

Inflammation

Chronic, Minimal

* Pancreas

Acinus

Atrophy

Minimal

Tooth

Pulp

Malformation

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE
**ANIMAL ID:** 119  
**TRT#:** 1  
**SEX:** Male  
**DOSE:** 0 UG/KG  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200709

### ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- Adrenal Cortex
- Bone Marrow
- Harderian Gland
- Intestine Large, Rectum
- Islets, Pancreatic
- Lymph Node, Mandibular
- Pancreas
- Prostate
- Spleen
- Thymus

- Adrenal Medulla
- Epididymis
- Heart
- Intestine Small, Duodenum
- Kidney
- Lymph Node, Mesenteric
- Parathyroid Gland
- Salivary Glands
- Stomach, Foregut
- Thyroid Gland

- Blood Vessel
- Esophagus
- Intestine Large, Cecum
- Intestine Small, Ileum
- Liver
- Mammary Gland
- Pituitary Gland
- Seminal Vesicle
- Stomach, Glandular
- Trachea

- Bone
- Eye
- Intestine Large, Colon
- Intestine Small, Jejunum
- Lung
- Nose
- Preputial Gland
- Skin
- Testes
- Urinary Bladder

### OBSERVATIONS

- Brain
  - Cranial Nerve
  - Gliosis
  - Minimal
  - Note: Unilateral optic nerve gliosis
  - Tooth
  - Pulp
  - Malformation
  - Minimal

### PRIMARY CAUSE OF DEATH

-
**ANIMAL ID:** 120  
**TRT#:** 1  
**DOSE:** 0 UG/KG  
**SEX:** Male  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200710

### ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- Adrenal Cortex
- Bone Marrow
- Eye
- Intestine Large, Colon
- Intestine Small, Jejunum
- Mammary Gland
- Preputial Gland
- Skin
- Testes
- Urinary Bladder

- Adrenal Medulla
- Brain
- Harderian Gland
- Intestine Large, Rectum
- Islets, Pancreatic
- Nose
- Prostate
- Spleen
- Thymus

- Blood Vessel
- Epididymis
- Heart
- Intestine Small, Duodenum
- Lymph Node, Mandibular
- Pancreas
- Salivary Glands
- Stomach, Forestomach
- Thyroid Gland

- Bone
- Esophagus
- Intestine Large, Cecum
- Intestine Small, Ileum
- Lymph Node, Mesenteric
- Pituitary Gland
- Seminal Vesicle
- Stomach, Glandular
- Trachea

**MISSING**

- Parathyroid Gland

### OBSERVATIONS

- Kidney: Mineralization Minimal
- Liver: Inflammation Chronic, Minimal
- Lung: Metaplasia Osseous, Minimal
- Tooth Pulp: Malformation Minimal

### PRIMARY CAUSE OF DEATH

-
<table>
<thead>
<tr>
<th>ANIMAL ID: 211</th>
<th>TRT#: 3</th>
<th>SEX: Male</th>
<th>DAY ON TEST: 94</th>
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<tbody>
<tr>
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**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
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<th>Thyroid Gland</th>
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<tbody>
<tr>
<td>Eye</td>
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**OBSERVATIONS**

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<thead>
<tr>
<th>Harderian Gland</th>
<th>Inflammation</th>
<th>Chronic, Minimal</th>
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**PRIMARY CAUSE OF DEATH**

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<table>
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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<thead>
<tr>
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<tbody>
<tr>
<td>Eye</td>
<td>Thyroid Gland</td>
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</tbody>
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**OBSERVATIONS**

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<tr>
<th>Organ</th>
<th>Observations</th>
<th>Grade</th>
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<tbody>
<tr>
<td>Harderian Gland</td>
<td>Pigmentation</td>
<td>Mild</td>
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**PRIMARY CAUSE OF DEATH**

-
**ANIMAL ID:** 213  
**TRT#:** 3  
**SEX:** Male  
**DOSE:** 5 UG/KG  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200723

### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>NORMAL</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td></td>
<td>Thyroid Gland</td>
</tr>
</tbody>
</table>

### OBSERVATIONS

<table>
<thead>
<tr>
<th>Harderian Gland</th>
<th>Pigmentation</th>
<th>Mild</th>
</tr>
</thead>
</table>

### PRIMARY CAUSE OF DEATH

-
<table>
<thead>
<tr>
<th>ANIMAL ID: 214</th>
<th>TRT#: 3</th>
<th>SEX: Male</th>
<th>DAY ON TEST: 94</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOSE: 5 UG/KG</td>
<td>DISP:  Terminal Sacrifice</td>
<td>HISTO: 0200724</td>
<td></td>
</tr>
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</table>

**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
<th>NORMAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
</tr>
<tr>
<td>Harderian Gland</td>
</tr>
<tr>
<td>Thyroid Gland</td>
</tr>
</tbody>
</table>

**PRIMARY CAUSE OF DEATH**

-
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  

**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:50  
**First Dose M/F:** NA / NA  
**Lab:** BAT  

<table>
<thead>
<tr>
<th>ANIMAL ID: 215</th>
<th>TRT#: 3</th>
<th>DOSE: 5 UG/KG</th>
<th>SEX: Male</th>
<th>DISP: Terminal Sacrifice</th>
<th>DAY ON TEST: 94</th>
<th>HISTO: 0200725</th>
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

<table>
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<tr>
<th>Eye</th>
<th>Thyroid Gland</th>
</tr>
</thead>
</table>

**OBSERVATIONS**

<table>
<thead>
<tr>
<th>Harderian Gland</th>
<th>Inflammation</th>
<th>Chronic, Mild</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pigmentation</td>
<td></td>
<td>Mild</td>
</tr>
</tbody>
</table>

**PRIMARY CAUSE OF DEATH**

-
<table>
<thead>
<tr>
<th>ANIMAL ID: 216</th>
<th>TRT#: 3</th>
<th>SEX: Male</th>
<th>DAY ON TEST: 94</th>
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</thead>
<tbody>
<tr>
<td>DOSE: 5 UG/KG</td>
<td>DISP: Terminal Sacrifice</td>
<td>HISTO: 0200726</td>
<td></td>
</tr>
</tbody>
</table>

### ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- Eye
- Thyroid Gland

**OBSERVATIONS**

- Harderian Gland: Infiltration Cellular
- Lymphoid, Mild

**PRIMARY CAUSE OF DEATH**

-
Experiment Number: 96013-04
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Melatonin
CAS Number: 73-31-4

Date Report Requested: 10/21/2014
Time Report Requested: 08:47:50
First Dose M/F: NA / NA
Lab: BAT

**ANIMAL ID:** 217  
**TRT#:** 3  
**DOSE:** 5 UG/KG  
**SEX:** Male  
**DISP:** Terminal Sacrifice  
**HISTO:** 0200727  
**DAY ON TEST:** 94

<table>
<thead>
<tr>
<th>ORGAN AND ACCOUNTABLE SITE STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NORMAL</strong></td>
</tr>
<tr>
<td>Eye</td>
</tr>
<tr>
<td>Thyroid Gland</td>
</tr>
<tr>
<td><strong>OBSERVATIONS</strong></td>
</tr>
<tr>
<td>Harderian Gland</td>
</tr>
<tr>
<td>Pigmentation</td>
</tr>
<tr>
<td>Mild</td>
</tr>
<tr>
<td><strong>PRIMARY CAUSE OF DEATH</strong></td>
</tr>
</tbody>
</table>

* PROTOCOL REQUIRED TISSUE
Experiment Number: 96013-04  
Test Type: 90-DAY  
Route: GAVAGE  
Species/Strain: Rat/LONG-EVANS  

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Melatonin  
CAS Number: 73-31-4  

Date Report Requested: 10/21/2014  
Time Report Requested: 08:47:50  
First Dose M/F: NA / NA  
Lab: BAT  

<table>
<thead>
<tr>
<th>ANIMAL ID: 218</th>
<th>TRT#: 3</th>
<th>SEX: Male</th>
<th>DOSE: 5 UG/KG</th>
<th>DISP: Terminal Sacrifice</th>
<th>DAY ON TEST: 94</th>
<th>HISTO: 0200728</th>
</tr>
</thead>
</table>

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- Eye
- Thyroid Gland

**OBSERVATIONS**

- Harderian Gland
- Pigmentation
- Thyroid Gland
- Mild

Note: Only one thyroid gland on slide.

**PRIMARY CAUSE OF DEATH**

-
## P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

<table>
<thead>
<tr>
<th>ANIMAL ID:</th>
<th>219</th>
<th>TRT#:</th>
<th>3</th>
<th>DOSE:</th>
<th>5 UG/KG</th>
<th>SEX:</th>
<th>Male</th>
<th>DISP:</th>
<th>Terminal Sacrifice</th>
<th>DAY ON TEST:</th>
<th>94</th>
<th>HISTO:</th>
<th>0200729</th>
</tr>
</thead>
</table>

### ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

<table>
<thead>
<tr>
<th>Eye</th>
<th>Thyroid Gland</th>
</tr>
</thead>
</table>

**OBSERVATIONS**

<table>
<thead>
<tr>
<th>Harderian Gland</th>
<th>Pigmentation</th>
<th>Mild</th>
</tr>
</thead>
</table>

**PRIMARY CAUSE OF DEATH**

-
Experiment Number: 96013-04
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Melatonin
CAS Number: 73-31-4

Date Report Requested: 10/21/2014
Time Report Requested: 08:47:50
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 220
TRT#: 3
DOSE: 5 UG/KG
SEX: Male
DISP: Terminal Sacrifice
DAY ON TEST: 94
HISTO: 0200730

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL
Eye
Harderian Gland
Thyroid Gland

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE
<table>
<thead>
<tr>
<th>ANIMAL ID: 311</th>
<th>TRT#: 5</th>
<th>SEX: Male</th>
<th>DAY ON TEST: 94</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOSE: 50 UG/KG</td>
<td>DISP: Terminal Sacrifice</td>
<td>HISTO: 0200741</td>
<td></td>
</tr>
</tbody>
</table>

### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td>Thyroid Gland</td>
<td></td>
</tr>
</tbody>
</table>

### OBSERVATIONS

<table>
<thead>
<tr>
<th>Organ</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harderian Gland</td>
<td>Pigmentation: Mild</td>
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</tbody>
</table>

### PRIMARY CAUSE OF DEATH

-
<table>
<thead>
<tr>
<th>ANIMAL ID:</th>
<th>312</th>
<th>TRT#:</th>
<th>5</th>
<th>DOSE: 50 UG/KG</th>
<th>SEX: Male</th>
<th>DISP: Terminal Sacrifice</th>
<th>DAY ON TEST: 94</th>
<th>HISTO: 0200742</th>
</tr>
</thead>
</table>

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- Eye
- Harderian Gland
- Thyroid Gland

**PRIMARY CAUSE OF DEATH**

-
<table>
<thead>
<tr>
<th>ANIMAL ID: 313</th>
<th>TRT#: 5</th>
<th>SEX: Male</th>
<th>DOSE: 50 UG/KG</th>
<th>DISP: Terminal Sacrifice</th>
<th>DAY ON TEST: 94</th>
<th>HISTO: 0200743</th>
</tr>
</thead>
</table>

**NORMAL**

<table>
<thead>
<tr>
<th>Eye</th>
<th>Harderian Gland</th>
<th>Thyroid Gland</th>
</tr>
</thead>
</table>

**PRIMARY CAUSE OF DEATH**

-
### Experiment Number: 96013-04

**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS

---

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Requested:** 10/21/2014  
**Time Requested:** 08:47:50  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 314  
**TRT#:** 5  
**SEX:** Male  
**DOSE:** 50 UG/KG  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94

**HISTO:** 0200744

---

### ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

<table>
<thead>
<tr>
<th>Organ</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thyroid Gland</td>
<td></td>
</tr>
</tbody>
</table>

**OBSERVATIONS**

<table>
<thead>
<tr>
<th>Organ</th>
<th>Status</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epididymis</td>
<td>Atrophy</td>
<td>Marked</td>
</tr>
<tr>
<td>Harderian Gland</td>
<td>Pigmentation</td>
<td>Mild</td>
</tr>
<tr>
<td>Testes</td>
<td>Germinal Epith</td>
<td>Degeneration Marked</td>
</tr>
</tbody>
</table>

Note: Epididymal Atrophy = Aspermia  
[ Atrophy TGLS = 2-13 ]  
[ Degeneration TGLS = 1-11 ]

---

**PRIMARY CAUSE OF DEATH**

-
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  

---

**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:50  
**First Dose M/F:** NA / NA  
**Lab:** BAT  

---

**ANIMAL ID:** 315  
**TRT#:** 5  
**DOSE:** 50 UG/KG  
**SEX:** Male  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200745

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**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
<th>NORMAL</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td>Harderian Gland</td>
<td>Thyroid Gland</td>
</tr>
</tbody>
</table>

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**PRIMARY CAUSE OF DEATH**

-  

---

* PROTOCOL REQUIRED TISSUE
### P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

<table>
<thead>
<tr>
<th>Experiment Number:</th>
<th>96013-04</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Type:</td>
<td>90-DAY</td>
</tr>
<tr>
<td>Route:</td>
<td>GAVAGE</td>
</tr>
<tr>
<td>Species/Strain:</td>
<td>Rat/LONG-EVANS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test Compound:</th>
<th>Melatonin</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS Number:</td>
<td>73-31-4</td>
</tr>
</tbody>
</table>

| Date Report Requested: | 10/21/2014 |
| Time Report Requested: | 08:47:50 |
| First Dose M/F:       | NA / NA   |
| Lab:                  | BAT       |
| **ANIMAL ID:**        | 316       |
| **TRT#:**             | 5         |
| **DOSE:**             | 50 UG/KG  |
| **SEX:**              | Male      |
| **DISP:**             | Terminal Sacrifice |
| **DAY ON TEST:**      | 94        |
| **HISTO:**            | 0200746   |

#### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>NORMAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
</tr>
<tr>
<td>Harderian Gland</td>
</tr>
<tr>
<td>Thyroid Gland</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRIMARY CAUSE OF DEATH</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
</tr>
</tbody>
</table>

* PROTOCOL REQUIRED TISSUE
## INDIVIDUAL ANIMAL PATHOLOGY DATA

**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  
**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:50  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 317  
**TRT#:** 5  
**DOSE:** 50 UG/KG  
**SEX:** Male  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200747

### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>NORMAL</th>
<th>Thyroid Gland</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OBSERVATIONS</strong></td>
<td></td>
</tr>
<tr>
<td>Harderian Gland</td>
<td>Pigmentation</td>
</tr>
<tr>
<td>Mild</td>
<td></td>
</tr>
<tr>
<td>Skeletal Muscle</td>
<td>Rhabdomyosarcoma</td>
</tr>
<tr>
<td>[ Rhabdomyosarcoma TGLS = 2-14 ]</td>
<td></td>
</tr>
<tr>
<td>Testes</td>
<td>Bilateral, Germinal Epith</td>
</tr>
<tr>
<td>Degeneration</td>
<td>Marked</td>
</tr>
<tr>
<td>[ Degeneration TGLS = 1-11 ]</td>
<td></td>
</tr>
</tbody>
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**PRIMARY CAUSE OF DEATH**  
-
<table>
<thead>
<tr>
<th>ANIMAL ID: 318</th>
<th>TRT#: 5</th>
<th>SEX: Male</th>
<th>DAY ON TEST: 94</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOSE: 50 UG/KG</td>
<td>DISP: Terminal Sacrifice</td>
<td></td>
<td>HISTO: 0200748</td>
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**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Eye</td>
<td>Thyroid Gland</td>
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</table>

**OBSERVATIONS**

<table>
<thead>
<tr>
<th>Harderian Gland</th>
<th>Pigmentation</th>
<th>Mild</th>
</tr>
</thead>
</table>

**PRIMARY CAUSE OF DEATH**

-
<table>
<thead>
<tr>
<th>ANIMAL ID: 319</th>
<th>TRT#: 5</th>
<th>DOSE: 50 UG/KG</th>
<th>SEX: Male</th>
<th>DISP: Terminal Sacrifice</th>
<th>DAY ON TEST: 94</th>
<th>HISTO: 0200749</th>
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</table>

**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
<th>NORMAL</th>
<th>Eye</th>
<th>Thyroid Gland</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>OBSERVATIONS</th>
<th>Harderian Gland</th>
<th>Pigmentation</th>
<th>Mild</th>
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</thead>
</table>

**PRIMARY CAUSE OF DEATH**

-
<table>
<thead>
<tr>
<th>ANIMAL ID: 320</th>
<th>TRT#: 5</th>
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<th>DAY ON TEST: 94</th>
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**NORMAL**

<table>
<thead>
<tr>
<th>Eye</th>
<th>Harderian Gland</th>
<th>Thyroid Gland</th>
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**PRIMARY CAUSE OF DEATH**

-
<table>
<thead>
<tr>
<th>ANIMAL ID: 411</th>
<th>TRT#: 7</th>
<th>SEX: Male</th>
<th>DAY ON TEST: 94</th>
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</thead>
<tbody>
<tr>
<td>DOSE: 5000 UG/KG</td>
<td>DISP: Terminal Sacrifice</td>
<td>HISTO: 0200761</td>
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</tr>
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**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td>Harderian Gland</td>
</tr>
</tbody>
</table>

**PRIMARY CAUSE OF DEATH**

-
Experiment Number: 96013-04
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

<table>
<thead>
<tr>
<th>ANIMAL ID: 412</th>
<th>TRT#: 7</th>
<th>SEX: Male</th>
<th>DAY ON TEST: 94</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOSE: 5000 UG/KG</td>
<td>DISP: Terminal Sacrifice</td>
<td>HISTO: 0200762</td>
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</table>

<table>
<thead>
<tr>
<th>ORGAN AND ACCOUNTABLE SITE STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NORMAL</td>
</tr>
<tr>
<td>Eye</td>
</tr>
<tr>
<td>Harderian Gland</td>
</tr>
<tr>
<td>Thyroid Gland</td>
</tr>
</tbody>
</table>

PRIMARY CAUSE OF DEATH:

-
**ANIMAL ID:** 413  **TRT#:** 7  **SEX:** Male  **DAY ON TEST:** 94

**DOSE:** 5000 UG/KG  **DISP:** Terminal Sacrifice  **HISTO:** 0200763

### ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

<table>
<thead>
<tr>
<th>Eye</th>
<th>Thyroid Gland</th>
</tr>
</thead>
</table>

### OBSERVATIONS

<table>
<thead>
<tr>
<th>Harderian Gland</th>
<th>Pigmentation</th>
<th>Mild</th>
</tr>
</thead>
</table>

**PRIMARY CAUSE OF DEATH**

-
**ANIMAL ID:** 414  
**TRT#:** 7  
**SEX:** Male  
**DOSE:** 5000 UG/KG  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200764

**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
<th>NORMAL</th>
<th>Eye</th>
<th>Thyroid Gland</th>
</tr>
</thead>
</table>

**OBSERVATIONS**

<table>
<thead>
<tr>
<th>Harderian Gland</th>
<th>Pigmentation</th>
<th>Mild</th>
</tr>
</thead>
</table>

**PRIMARY CAUSE OF DEATH**

-
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS

---

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:50  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<table>
<thead>
<tr>
<th>ANIMAL ID: 415</th>
<th>TRT#: 7</th>
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<th>DAY ON TEST: 94</th>
<th>HISTO: 0200765</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOSE: 5000 UG/KG</td>
<td>DISP: Terminal Sacrifice</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

| NORMAL | | |
|--------| | |
| Eye | Thyroid Gland |

| MISSING | | |
|---------| | |
| Harderian Gland |

| PRIMARY CAUSE OF DEATH | - |

---

* PROTOCOL REQUIRED TISSUE
## Experiment Number: 96013-04
### Test Type: 90-DAY
### Route: GAVAGE
### Species/Strain: Rat/LONG-EVANS
### P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
#### Test Compound: Melatonin
#### CAS Number: 73-31-4
### Date Report Requested: 10/21/2014
### Time Report Requested: 08:47:50
### First Dose M/F: NA / NA
### Lab: BAT

### ANIMAL ID: 416
#### TRT#: 7
#### DOSE: 5000 UG/KG
#### SEX: Male
#### DISP: Terminal Sacrifice
#### DAY ON TEST: 94
#### HISTO: 0200766

### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>NORMAL</th>
<th>Eye</th>
<th>Thyroid Gland</th>
</tr>
</thead>
</table>

### OBSERVATIONS

<table>
<thead>
<tr>
<th>Harderian Gland</th>
<th>Pigmentation</th>
<th>Mild</th>
</tr>
</thead>
</table>

### PRIMARY CAUSE OF DEATH
- * PROTOCOL REQUIRED TISSUE
**ANIMAL ID:** 417  
**TRT#:** 7  
**DOSE:** 5000 UG/KG  
**SEX:** Male  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200767

**NORMAL**

<table>
<thead>
<tr>
<th>Eye</th>
<th>Thyroid Gland</th>
</tr>
</thead>
</table>

**OBSERVATIONS**

<table>
<thead>
<tr>
<th>Harderian Gland</th>
<th>Inflammation</th>
<th>Chronic, Minimal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pigmentation</td>
<td></td>
<td>Mild</td>
</tr>
</tbody>
</table>

**PRIMARY CAUSE OF DEATH**

-
Experiment Number: 96013-04
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Date Report Requested: 10/21/2014
Time Report Requested: 08:47:50
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 418  TRT#: 7  SEX: Male  DAY ON TEST: 94
DOSE: 5000 UG/KG  DISP: Terminal Sacrifice  HISTO: 0200768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL
Eye
Thyroid Gland

MISSING
Harderian Gland

PRIMARY CAUSE OF DEATH
-

* PROTOCOL REQUIRED TISSUE
**ANIMAL ID:** 419  
**TRT#:** 7  
**DOSE:** 5000 UG/KG  
**SEX:** Male  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200769

### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>Organ</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td>NORMAL</td>
</tr>
<tr>
<td>Harderian Gland</td>
<td></td>
</tr>
<tr>
<td>Thyroid Gland</td>
<td></td>
</tr>
</tbody>
</table>

**PRIMARY CAUSE OF DEATH**

- **PROTOCOL REQUIRED TISSUE**

---

**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  
**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:50  
**First Dose M/F:** NA / NA  
**Lab:** BAT
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  
**CAS Number:** 73-31-4

**ANIMAL ID:** 420  
**TRT#:** 7  
**DOSE:** 5000 UG/KG  
**SEX:** Male  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200770

**NORMAL**

<table>
<thead>
<tr>
<th>Organ</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td>Normal</td>
</tr>
<tr>
<td>Thyroid Gland</td>
<td></td>
</tr>
</tbody>
</table>

**INFLAMMATION**

<table>
<thead>
<tr>
<th>Organ</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harderian Gland</td>
<td>Inflammation</td>
</tr>
<tr>
<td>Pigmentation</td>
<td>Chronic, Minimal</td>
</tr>
<tr>
<td>Hyperplasia</td>
<td>Mild</td>
</tr>
</tbody>
</table>

**STOMACH, GLANDULAR**

<table>
<thead>
<tr>
<th>Organ</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stomach, Glandular</td>
<td>Hyperplasia</td>
</tr>
<tr>
<td>Note: Would prefer the term &quot;diverticulum&quot; for the glandular stomach alteration</td>
<td></td>
</tr>
</tbody>
</table>

**PRIMARY CAUSE OF DEATH**

-
ANIMAL ID: 511  TRT#: 9  SEX: Male  DAY ON TEST: 94
DOSE: 50,000 UG/KG  DISP: Terminal Sacrifice  HISTO: 0200781

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye  Harderian Gland  Thyroid Gland

PRIMARY CAUSE OF DEATH

-
<table>
<thead>
<tr>
<th>ORGAN AND ACCOUNTABLE SITE STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NORMAL</strong></td>
</tr>
<tr>
<td>Eye</td>
</tr>
<tr>
<td>Thyroid Gland</td>
</tr>
<tr>
<td><strong>OBSERVATIONS</strong></td>
</tr>
<tr>
<td>Harderian Gland</td>
</tr>
<tr>
<td>Pigmentation</td>
</tr>
<tr>
<td>Mild</td>
</tr>
<tr>
<td><strong>PRIMARY CAUSE OF DEATH</strong></td>
</tr>
<tr>
<td>-</td>
</tr>
</tbody>
</table>
Experiment Number: 96013-04
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/21/2014
**Time Report Requested:** 08:47:50
**First Dose M/F:** NA / NA
**Lab:** BAT

<table>
<thead>
<tr>
<th>ANIMAL ID</th>
<th>TRT#</th>
<th>DOSE</th>
<th>SEX</th>
<th>DAY ON TEST</th>
<th>DISP</th>
<th>HISTO</th>
</tr>
</thead>
<tbody>
<tr>
<td>513</td>
<td>9</td>
<td>50,000 UG/KG</td>
<td>Male</td>
<td>94</td>
<td>Terminal Sacrifice</td>
<td>0200783</td>
</tr>
</tbody>
</table>

**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
<th>NORMAL</th>
<th>Normal</th>
<th>Normal</th>
<th>Normal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Harderian Gland</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thyroid Gland</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PRIMARY CAUSE OF DEATH**

-
<table>
<thead>
<tr>
<th>ANIMAL ID: 514</th>
<th>TRT#: 9</th>
<th>DOSE: 50,000 UG/KG</th>
<th>SEX: Male</th>
<th>DISP: Terminal Sacrifice</th>
<th>DAY ON TEST: 94</th>
<th>HISTO: 0200784</th>
</tr>
</thead>
</table>

**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
<th>NORMAL</th>
<th>Eye</th>
<th>Harderian Gland</th>
<th>Thyroid Gland</th>
</tr>
</thead>
</table>

**PRIMARY CAUSE OF DEATH**

-
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  

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

---

| ANIMAL ID: | 515 | TRT#: | 9 | SEX: | Male | DOSE: | 50,000 UG/KG | DISP: | Terminal Sacrifice | DAY ON TEST: | 94 | HISTO: | 0200785 |

** Organ and Accountable Site Status **

<table>
<thead>
<tr>
<th>Normal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
</tr>
</tbody>
</table>

** Primary Cause of Death **

-  

* PROTOCOL REQUIRED TISSUE
**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**ANIMAL ID:** 516  
**TRT#:** 9  
**DOSE:** 50,000 UG/KG  
**SEX:** Male  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200786  

### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>Organ and Site</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td>Normal</td>
</tr>
<tr>
<td>Thyroid Gland</td>
<td></td>
</tr>
</tbody>
</table>

### OBSERVATIONS

<table>
<thead>
<tr>
<th>Organ and Site</th>
<th>Observation</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harderian Gland</td>
<td>Pigmentation</td>
<td>Mild</td>
</tr>
</tbody>
</table>

### PRIMARY CAUSE OF DEATH

-
ANIMAL ID: 517   TRT#: 9   SEX: Male   DAY ON TEST: 94
DOSE: 50,000 UG/KG   DISP: Terminal Sacrifice   HISTO: 0200787

**NORMAL**

<table>
<thead>
<tr>
<th>Organ</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td></td>
</tr>
<tr>
<td>Harderian Gland</td>
<td></td>
</tr>
<tr>
<td>Thyroid Gland</td>
<td></td>
</tr>
</tbody>
</table>

**PRIMARY CAUSE OF DEATH**

-
### ANIMAL PATHOLOGY DATA

**Animal ID:** 518  
**TRT#:** 9  
**Dose:** 50,000 UG/KG  
**Sex:** Male  
**Disp.:** Terminal Sacrifice  
**Day on Test:** 94  
**Histology:** 0200788

<table>
<thead>
<tr>
<th>Organ and Accountable Site</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td>Normal</td>
</tr>
<tr>
<td>Thyroid Gland</td>
<td></td>
</tr>
</tbody>
</table>

**Observations**

<table>
<thead>
<tr>
<th>Organ</th>
<th>Pigmentation</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harderian Gland</td>
<td>Mild</td>
<td></td>
</tr>
</tbody>
</table>

**Primary Cause of Death:** -

* Protocol Required Tissue
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  
**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:50  
**First Dose M/F:** NA / NA  
**Lab:** BAT

### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>NORMAL</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thyroid Gland</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### OBSERVATIONS

<table>
<thead>
<tr>
<th>PRIMARY CAUSE OF DEATH</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Harderian Gland</td>
<td>Pigmentation</td>
</tr>
<tr>
<td></td>
<td>Mild</td>
</tr>
</tbody>
</table>

* PROTOCOL REQUIRED TISSUE
### P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  
**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:50  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<table>
<thead>
<tr>
<th>ANIMAL ID: 520</th>
<th>TRT#: 9</th>
<th>SEX: Male</th>
<th>DAY ON TEST: 94</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOSE: 50,000 UG/KG</td>
<td>DISP: Terminal Sacrifice</td>
<td>HISTO: 0200790</td>
<td></td>
</tr>
</tbody>
</table>

### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>NORMAL</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td>Harderian Gland</td>
<td>Thyroid Gland</td>
</tr>
</tbody>
</table>

**PRIMARY CAUSE OF DEATH:** -

* PROTOCOL REQUIRED TISSUE
**ANIMAL ID:** 611  |  **TRT#:** 11  |  **SEX:** Male  |  **DAY ON TEST:** 94
---|---|---|---
**DOSE:** 200,000 UG/KG  |  **DISP:** Terminal Sacrifice  |  **HISTO:** 0200801

**ORGAN AND ACCOUNTABLE SITE STATUS**

| NORMAL | | | |
|---|---|---|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel |
| * Bone Marrow | * Brain | * Epididymis |
| Eye | * Harderian Gland | * Heart |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Spleen | * Stomach, Foregut | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea |

<table>
<thead>
<tr>
<th>* Bone Marrow</th>
<th>* Bone</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>* Esophagus</td>
<td>* Intestine Large, Cecum</td>
<td></td>
</tr>
<tr>
<td>* Intestine Small, Ileum</td>
<td>* Liver</td>
<td></td>
</tr>
<tr>
<td>* Lung</td>
<td>* Nose</td>
<td></td>
</tr>
<tr>
<td>* Pancreas</td>
<td>* Parathyroid Gland</td>
<td></td>
</tr>
<tr>
<td>* Prostate</td>
<td>* Skin</td>
<td></td>
</tr>
<tr>
<td>* Spleen</td>
<td>* Testes</td>
<td></td>
</tr>
<tr>
<td>* Thymus</td>
<td>* Urinary Bladder</td>
<td></td>
</tr>
</tbody>
</table>

**OBSERVATIONS**

<table>
<thead>
<tr>
<th>* Lymph Node, Mandibular</th>
<th>Hyperplasia</th>
<th>Lymphoid, Mild</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ Hyperplasia TGLS = 1-10 ]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PRIMARY CAUSE OF DEATH**

-
### Experiment Number: 96013-04

**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS

---

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

---

#### P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

#### Date Report Requested: 10/21/2014  
**Time Report Requested:** 08:47:50  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 612  
**TRT#:** 11  
**DOSE:** 200,000 UG/KG  
**SEX:** Male  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200802

---

### ORGAN AND ACCOUNTABLE SITE STATUS

#### NORMAL

- Adrenal Cortex  
- Bone Marrow  
- Eye  
- Intestine Large, Colon  
- Intestine Small, Jejunum  
- Mammary Gland  
- Pituitary Gland  
- Skin  
- Thymus  
- Adrenal Medulla  
- Brain  
- Harderian Gland  
- Intestine Large, Rectum  
- Islets, Pancreatic  
- Nose  
- Preputial Gland  
- Spleen  
- Thyroid Gland

- Blood Vessel  
- Epididymis  
- Heart  
- Intestine Small, Duodenum  
- Liver  
- Pancreas  
- Salivary Glands  
- Stomach, Forestomach  
- Trachea  
- Esophagus  
- Intestine Large, Cecum  
- Intestine Small, Ileum  
- Lymph Node, Mesenteric  
- Parathyroid Gland  
- Seminal Vesicle  
- Stomach, Glandular  
- Urinary Bladder

---

### OBSERVATIONS

- Kidney  
- Lung  
- Lymph Node, Mandibular  
- Prostate  
- Testes  
- Tooth  

  - Mineralization  
  - Nephropathy  
  - Metaplasia  
  - Congestion  
  - Inflammation  
  - Germinal Epith  
  - Pulp  

  - Minimal  
  - Minimal  
  - Osseous, Minimal  
  - Mild  
  - Chronic Active, Mild  
  - Degeneration  
  - Malformation  

---

### PRIMARY CAUSE OF DEATH

-
**ANIMAL ID:** 613  
**TRT#:** 11  
**DOSE:** 200,000 UG/KG  
**SEX:** Male  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200803

### ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- Adrenal Cortex
- Bone Marrow
- Eye
- Intestine Large, Colon
- Intestine Small, Jejunum
- Lung
- Nose
- Preputial Gland
- Skin
- Testes
- Urinary Bladder

- Adrenal Medulla
- Brain
- Harderian Gland
- Intestine Large, Rectum
- Islets, Pancreatic
- Lymph Node, Mandibular
- Pancreas
- Prostate
- Spleen
- Thymus

- Blood Vessel
- Epididymis
- Heart
- Intestine Small, Duodenum
- Kidney
- Lymph Node, Mesenteric
- Parathyroid Gland
- Salivary Glands
- Stomach, Forestomach
- Thyroid Gland

- Bone
- Esophagus
- Intestine Large, Cecum
- Intestine Small, Ileum
- Liver
- Mammary Gland
- Pituitary Gland
- Seminal Vesicle
- Stomach, Glandular
- Trachea

### PRIMARY CAUSE OF DEATH

-
**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**ANIMAL ID:** 614  
**TRT#:** 11  
**DOSE:** 200,000 UG/KG  
**SEX:** Male  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94

**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
<th>NORMAL</th>
<th>ORGANS</th>
<th>ACCOUNTABLE SITE</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Adrenal Cortex</td>
<td>* Adrenal Medulla</td>
<td>* Blood Vessel</td>
</tr>
<tr>
<td>* Bone Marrow</td>
<td>* Brain</td>
<td>* Epididymis</td>
</tr>
<tr>
<td>Eye</td>
<td>* Heart</td>
<td>* Intestine Large, Cecum</td>
</tr>
<tr>
<td>* Intestine Large, Rectum</td>
<td>* Intestine Small, Duodenum</td>
<td>* Intestine Small, Ileum</td>
</tr>
<tr>
<td>* Islets, Pancreatic</td>
<td>* Lymph Node, Mesenteric</td>
<td>* Mammary Gland</td>
</tr>
<tr>
<td>* Parathyroid Gland</td>
<td>* Pituitary Gland</td>
<td>* Preputial Gland</td>
</tr>
<tr>
<td>* Salivary Glands</td>
<td>* Seminal Vesicle</td>
<td>* Skin</td>
</tr>
<tr>
<td>* Stomach, Foregastro</td>
<td>* Stomach, Glandular</td>
<td>* Testes</td>
</tr>
<tr>
<td>* Thyroid Gland</td>
<td>* Trachea</td>
<td>* Urinary Bladder</td>
</tr>
<tr>
<td>* Bone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Esophagus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Intestine Large, Colon</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Intestine Small, Jejunum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Pancreas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Prostate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Spleen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Thymus</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**OBSERVATIONS**

<table>
<thead>
<tr>
<th>ORGANS</th>
<th>FINDINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Harderian Gland</td>
<td>Pigmentation</td>
</tr>
<tr>
<td>* Kidney</td>
<td>Nephropathy</td>
</tr>
<tr>
<td>* Liver</td>
<td>Inflammation</td>
</tr>
<tr>
<td>* Lung</td>
<td>Chronic, Minimal</td>
</tr>
<tr>
<td>* Lymph Node, Mandibular</td>
<td>Congestion</td>
</tr>
<tr>
<td></td>
<td>Hyperplasia</td>
</tr>
<tr>
<td></td>
<td>Lymphoid, Mild</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hyperplasia TGLS = 1-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Nose</td>
</tr>
<tr>
<td>Tooth</td>
</tr>
</tbody>
</table>

**PRIMARY CAUSE OF DEATH**

-
**ANIMAL ID:** 615  
**TRT#:** 11  
**DOSE:** 200,000 UG/KG  
**SEX:** Male  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200805

### ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**
- Adrenal Cortex
- Bone Marrow
- Heart
- Intestine Small, Duodenum
- Kidney
- Mammary Gland
- Pituitary Gland
- Seminal Vesicle
- Stomach, Glandular
- Trachea
- Adrenal Medulla
- Epididymis
- Intestine Large, Cecum
- Intestine Small, Ileum
- Lung
- Nose
- Preputial Gland
- Skin
- Testes
- Urinary Bladder
- Blood Vessel
- Esophagus
- Intestine Large, Colon
- Intestine Small, Jejunum
- Lymph Node, Mandibular
- Pancreas
- Prostate
- Spleen
- Thymus
- Bone
- Eye
- Intestine Large, Rectum
- Islets, Pancreatic
- Lymph Node, Mesenteric
- Parathyroid Gland
- Salivary Glands
- Stomach, Foregut
- Thyroid Gland

### OBSERVATIONS

- Brain
- Cranial Nerve
- Gliosis
- Minimal
- Note: Unilateral optic nerve gliosis

- Harderian Gland
- Pigmentation
- Mild

- Liver
- Inflammation
- Chronic, Minimal

### PRIMARY CAUSE OF DEATH

-
<table>
<thead>
<tr>
<th>ANIMAL ID: 616</th>
<th>TRT#: 11</th>
<th>SEX: Male</th>
<th>DAY ON TEST: 94</th>
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<tr>
<td>DOSE: 200,000 UG/KG</td>
<td>DISP: Terminal Sacrifice</td>
<td>HISTO: 0200806</td>
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**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
<th>NORMAL</th>
<th>Adrenal Cortex</th>
<th>Adrenal Medulla</th>
<th>Blood Vessel</th>
<th>Bone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bone Marrow</td>
<td>Brain</td>
<td>Epididymis</td>
<td>Esophagus</td>
<td></td>
</tr>
<tr>
<td>Eye</td>
<td>Intestine Large, Cecum</td>
<td>Intestine Large, Colon</td>
<td>Intestine Large, Rectum</td>
<td></td>
</tr>
<tr>
<td>Intestine Small, Duodenum</td>
<td>Intestine Small, Ileum</td>
<td>Intestine Small, Jejunum</td>
<td>Islets, Pancreatic</td>
<td></td>
</tr>
<tr>
<td>Lung</td>
<td>Lymph Node, Mandibular</td>
<td>Lymph Node, Mesenteric</td>
<td>Mammary Gland</td>
<td></td>
</tr>
<tr>
<td>Pancreas</td>
<td>Parathyroid Gland</td>
<td>Pituitary Gland</td>
<td>Preputial Gland</td>
<td></td>
</tr>
<tr>
<td>Prostate</td>
<td>Salivary Glands</td>
<td>Seminal Vesicle</td>
<td>Skin</td>
<td></td>
</tr>
<tr>
<td>Spleen</td>
<td>Stomach, Foregut</td>
<td>Stomach, Glandular</td>
<td>Testes</td>
<td></td>
</tr>
<tr>
<td>Thymus</td>
<td>Thyroid Gland</td>
<td>Trachea</td>
<td>Urinary Bladder</td>
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**OBSERVATIONS**

<table>
<thead>
<tr>
<th>Heart</th>
<th>Pigmentation</th>
<th>Mild</th>
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<tr>
<td>Kidney</td>
<td>Cardiomyopathy</td>
<td>Minimal</td>
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<td>Mineralization</td>
<td>Minimal</td>
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<tr>
<td>Lymph Node</td>
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<tr>
<td>Nose</td>
<td>Inflammation</td>
<td>Focal, Minimal</td>
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<tr>
<td>Inguinal</td>
<td>Vacuolization Cytoplasmic</td>
<td>Granulomatous, Minimal</td>
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**PRIMARY CAUSE OF DEATH**

-
**ANIMAL ID:** 617  
**TRT#:** 11  
**DOSE:** 200,000 UG/KG  
**SEX:** Male  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200807

### ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**
- Adrenal Cortex
- Adrenal Medulla
- Brain
- Heart
- Intestine Small, Duodenum
- Kidney
- Lymph Node, Mesenteric
- Parathyroid Gland
- Seminal Vesicle
- Stomach, Glandular
- Trachea
- Blood Vessel
- Epididymis
- Intestine Large, Cecum
- Intestine Small, Ileum
- Liver
- Nose
- Preputial Gland
- Skin
- Testes
- Urinary Bladder
- Bone
- Esophagus
- Intestine Large, Colon
- Intestine Small, Jejunum
- Lung
- Pancreas
- Prostate
- Spleen
- Thymus

**MISSING**
- Mammary Gland

### OBSERVATIONS
- Harderian Gland: Pigmentation - Mild

### PRIMARY CAUSE OF DEATH
-
**ANIMAL ID:** 618  
**TRT#:** 11  
**DOSE:** 200,000 UG/KG  
**SEX:** Male  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200808

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<tr>
<td>* Brain</td>
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<tr>
<td>* Harderian Gland</td>
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<tr>
<td>* Intestine Large, Rectum</td>
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<tr>
<td>* Islets, Pancreatic</td>
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<td>* Pancreas</td>
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<tr>
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<tr>
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<td>* Lymph Node, Mandibular</td>
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<tr>
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<tr>
<td>* Parathyroid Gland</td>
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<td>* Seminal Vesicle</td>
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<td>* Stomach, Glandular</td>
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<td>* Trachea</td>
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<td>Nephropathy</td>
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<td>Inflammation</td>
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<td>Tooth</td>
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<tr>
<td>Pulp</td>
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<tr>
<td>Malformation</td>
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<td>* Nose</td>
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<tr>
<td>* Preputial Gland</td>
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<table>
<thead>
<tr>
<th>PRIMARY CAUSE OF DEATH</th>
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* PROTOCOL REQUIRED TISSUE
Experiment Number: 96013-04  
Test Type: 90-DAY  
Route: GAVAGE  
Species/Strain: Rat/LONG-EVANS

| ANIMAL ID: 619 | TRT#: 11 | DOSE: 200,000 UG/KG | SEX: Male | DISP: Terminal Sacrifice | DAY ON TEST: 94 | HISTO: 0200809 |

**ORGAN AND ACCOUNTABLE SITE STATUS**

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<td>* Adrenal Medulla</td>
<td>* Blood Vessel</td>
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<tr>
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<td>* Brain</td>
<td>* Epididymis</td>
<td>* Esophagus</td>
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<tr>
<td>Eye</td>
<td>* Heart</td>
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<tr>
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<td>* Lymph Node, Mesenteric</td>
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<td>* Stomach, Foregut</td>
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<td>* Testes</td>
<td>* Thymus</td>
<td>* Thyroid Gland</td>
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<tr>
<td>* Trachea</td>
<td>* Urinary Bladder</td>
<td></td>
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</table>

**OBSERVATIONS**

| Pigmentation     | Mild  |
| Mineralization   | Minimal |
| Nephropathy      | Minimal |
| Inflammation     | Chronic, Minimal |

**PRIMARY CAUSE OF DEATH**

-
P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

**Experiment Number:** 96013-04
**Test Type:** 90-DAY
**Route:** GAVAGE
**Species/Strain:** Rat/LONG-EVANS
**Test Compound:** Melatonin
**CAS Number:** 73-31-4
**Date Report Requested:** 10/21/2014
**Time Report Requested:** 08:47:50
**First Dose M/F:** NA / NA
**Lab:** BAT

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<td>DISP: Terminal Sacrifice</td>
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</tbody>
</table>

### ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**
- Adrenal Cortex
- Bone Marrow
- Eye
- Intestine Small, Duodenum
- Lymph Node, Mandibular
- Parathyroid Gland
- Salivary Glands
- Stomach, Foregut
- Thyroid Gland
- Adrenal Medulla
- Brain
- Intestine Large, Cecum
- Intestine Small, Ileum
- Lymph Node, Mesenteric
- Pituitary Gland
- Seminal Vesicle
- Stomach, Glandular
- Trachea
- Blood Vessel
- Epididymis
- Intestine Large, Colon
- Intestine Small, Jejunum
- Mammary Gland
- Preputial Gland
- Skin
- Testes
- Urinary Bladder
- Bone
- Esophagus
- Intestine Large, Rectum
- Islets, Pancreatic
- Nose
- Prostate
- Spleen
- Thymus

### OBSERVATIONS

- Harderian Gland: Pigmentation, Mild
- Heart: Cardiomyopathy, Minimal
- Kidney: Mineralization, Minimal
- Nephropathy, Minimal
- Liver: Inflammation, Chronic, Minimal
- Lung: Foreign Body, Inflammation, Chronic, Minimal
- Pancreas: Acinus, Atrophy, Minimal

**PRIMARY CAUSE OF DEATH**
-
ANIMAL ID: 161  TRT#: 2  DOSE: 0 UG/KG  SEX: Female  DISP: Terminal Sacrifice  DAY ON TEST: 94


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<td>* Intestine Small, Jejunum</td>
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<td>* Lymph Node, Mandibular</td>
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<td>* Urinary Bladder</td>
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<td>* Adrenal Medulla</td>
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<tr>
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<td>* Harderian Gland</td>
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<td>* Islets, Pancreatic</td>
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<tr>
<td>* Intestine Small, Duodenum</td>
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<tr>
<td>* Liver</td>
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<tr>
<td>* Mammary Gland</td>
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<td>* Parathyroid Gland</td>
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<td>* Spleen</td>
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<td>* Thyroid Gland</td>
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<td>* Bone</td>
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<td>* Pituitary Gland</td>
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<tr>
<td>* Stomach, Foregut</td>
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<tr>
<td>* Trachea</td>
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OBSERVATIONS
* Kidney
Mineralization  Minimal
Nephropathy  Minimal

PRIMARY CAUSE OF DEATH
-
### Experiment Number: 96013-04
#### Test Type: 90-DAY
#### Route: GAVAGE
#### Species/Strain: Rat/LONG-EVANS

---

#### Date Report Requested: 10/21/2014
#### Time Report Requested: 08:47:50
#### First Dose M/F: NA / NA
#### Lab: BAT

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### P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- * Adrenal Cortex
- * Adrenal Medulla
- * Brain
- * Heart
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Islets, Pancreatic
- * Kidney
- * Mammary Gland
- * Nipple
- * Pituitary Gland
- * Stomach, Foreestomach
- * Trachea
- * Urinary Bladder

- * Blood Vessel
- * Clitoral Gland
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pancreas
- * Skin
- * Thymus
- * Uterus

**OBSERVATIONS**

- * Harderian Gland
- * Liver
- * Lung
- * Ovary

- Pigmentation
- Clear Cell Focus
- Inflammation
- Inflammation
- Cyst

- Mild
- Chronic, Minimal
- Chronic, Minimal

**PRIMARY CAUSE OF DEATH**

- 

---

* PROTOCOL REQUIRED TISSUE

---
<table>
<thead>
<tr>
<th>ANIMAL ID: 163</th>
<th>TRT#: 2</th>
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</thead>
</table>

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- Adrenal Cortex
- Bone Marrow
- Eye
- Intestine Large, Colon
- Intestine Small, Jejunum
- Lung
- Nose
- Pituitary Gland
- Stomach, Forestomach
- Trachea
- * Adrenal Medulla
- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Ovary
- * Salivary Glands
- * Stomach, Glandular
- * Urinary Bladder
- * Blood Vessel
- * Clitoral Gland
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Lymph Node, Mesenteric
- * Pancreas
- * Skin
- * Thymus
- * Uterus
- * Bone
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Liver
- * Mammary Gland
- * Parathyroid Gland
- * Spleen
- * Thyroid Gland

**OBSERVATIONS**

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<thead>
<tr>
<th>Tooth</th>
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**PRIMARY CAUSE OF DEATH**

-
ANIMAL ID: 164  TRT#: 2  SEX: Female  DAY ON TEST: 94
DOSE: 0 UG/KG  DISP: Terminal Sacrifice  HISTO: 0200714

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL
- Adrenal Cortex  * Adrenal Medulla  * Blood Vessel  * Bone
- Bone Marrow  * Brain  * Clitoral Gland  * Esophagus
- Eye  * Harderian Gland  * Heart  * Intestine Large, Cecum
- Intestine Large, Colon  * Intestine Large, Rectum  * Intestine Small, Duodenum  * Intestine Small, Ileum
- Intestine Small, Jejunum  * Islets, Pancreatic  * Lung  * Lymph Node, Mandibular
- Lymph Node, Mesenteric  * Mammary Gland  * Nose  * Ovary
- Pancreas  * Parathyroid Gland  * Pituitary Gland  * Salivary Glands
- Skin  * Spleen  * Stomach, Foregut  * Stomach, Glandular
- Thymus  * Thyroid Gland  * Trachea  * Urinary Bladder

OBSERVATIONS
- Kidney  Mineralization  Minimal
- Liver  Inflammation  Chronic, Minimal
- Uterus  Dilatation  Mild

PRIMARY CAUSE OF DEATH
-
### ANIMAL ID: 165

**TRT#:** 2  
**DOSE:** 0 UG/KG  
**SEX:** Female  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200715

#### ORGAN AND ACCOUNTABLE SITE STATUS

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<tr>
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<tr>
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<td>* Thyroid Gland</td>
<td>* Trachea</td>
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#### OBSERVATIONS

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<th>Malformation</th>
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#### PRIMARY CAUSE OF DEATH

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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- Adrenal Cortex
- Adrenal Medulla
- Bone Marrow
- Heart
- Intestine Large, Rectum
- Intestine Small, Duodenum
- Islets, Pancreatic
- Lymph Node, Mandibular
- Nose
- Ovary
- Pituitary Gland
- Salivary Glands
- Stomach, Foregut
- Stomach, Glandular
- Trachea
- Urinary Bladder
- Blood Vessel
- Esophagus
- Intestine Large, Cecum
- Intestine Small, Ileum
- Lymph Node, Mesenteric
- Pancreas
- Skin
- Thymus
- Bone
- Eye
- Intestine Large, Colon
- Intestine Small, Jejunum
- Mammary Gland
- Parathyroid Gland
- Spleen
- Thyroid Gland

**OBSERVATIONS**

- Brain
- Cranial Nerve
- Degeneration
- Inflammation
- Minid
- Pinea gland
- Mineralization
- Nephropathy
- Minimal
- Kidney
- Inflammation
- Chronic
- Liver
- Metaplasia
- Osseous
- Minimal
- Lung
- Dilatation
- Uterus
- PRIMARY CAUSE OF DEATH

- Note: Unilateral optic nerve degeneration

**PRIMARY CAUSE OF DEATH**

- -

* PROTOCOL REQUIRED TISSUE
**ANIMAL ID:** 167  
**TRT#:** 2  
**DOSE:** 0 UG/KG  
**SEX:** Female  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200717

### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>NORMAL</th>
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<tbody>
<tr>
<td>* Adrenal Cortex</td>
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<td>* Clitoral Gland</td>
<td>* Esophagus</td>
<td>Eye</td>
</tr>
<tr>
<td>* Harderian Gland</td>
<td>* Heart</td>
<td>* Intestine Large, Cecum</td>
<td>* Intestine Large, Colon</td>
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<tr>
<td>* Intestine Large, Rectum</td>
<td>* Intestine Small, Duodenum</td>
<td>* Intestine Small, Ileum</td>
<td>* Intestine Small, Jejunum</td>
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<tr>
<td>* Islets, Pancreatic</td>
<td>* Lymph Node, Mandibular</td>
<td>* Lymph Node, Mesenteric</td>
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<td>* Nose</td>
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<td>* Spleen</td>
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<tr>
<td>* Stomach, Foregut</td>
<td>* Stomach, Glandular</td>
<td>* Thymus</td>
<td>* Thyroid Gland</td>
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<tr>
<td>* Trachea</td>
<td>* Urinary Bladder</td>
<td>* Uterus</td>
<td></td>
</tr>
</tbody>
</table>

### OBSERVATIONS

- Brain: Degeneration  
  Note: Unilateral degeneration of optic nerve  
- Kidney: Mineralization  
- Liver: Inflammation  
- Lung: Hyperplasia

### PRIMARY CAUSE OF DEATH

-
**ANIMAL ID:** 168  
**TRT#:** 2  
**DOSE:** 0 UG/KG  
**SEX:** Female  
**DAY ON TEST:** 94  

**ORGAN AND ACCOUNTABLE SITE STATUS**

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<td>* Esophagus</td>
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<td>* Eye</td>
<td>* Heart</td>
<td>* Intestine Large, Cecum</td>
<td>* Intestine Large, Colon</td>
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<tr>
<td>* Intestine Large, Rectum</td>
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<td>* Intestine Small, Ileum</td>
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<td>* Parathyroid Gland</td>
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<td>* Salivary Glands</td>
<td>* Skin</td>
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<td>* Stomach, Foreestomach</td>
<td>* Stomach, Glandular</td>
<td>* Thymus</td>
<td>* Thyroid Gland</td>
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<td>* Trachea</td>
<td>* Urinary Bladder</td>
<td>* Uterus</td>
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**OBSERVATIONS**

<table>
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<tr>
<th>PRIMARY CAUSE OF DEATH</th>
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* PROTOCOL REQUIRED TISSUE
### ANIMAL ID: 169
#### TRT#: 2
DOSE: 0 UG/KG
SEX: Female
DISP: Terminal Sacrifice
DAY ON TEST: 94
HISTO: 0200719

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<tr>
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<tr>
<td>* Islets, Pancreatic</td>
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<td>* Liver</td>
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<td>* Mammary Gland</td>
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<td>* Nose</td>
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<td>* Parathyroid Gland</td>
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<td>* Pituitary Gland</td>
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<tr>
<td>* Blood Vessel</td>
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<td>* Clitoral Gland</td>
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<td>* Salivary Glands</td>
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<tr>
<td>* Esophagus</td>
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<tr>
<td>* Intestine Large, Colon</td>
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<td>* Lymph Node, Mesenteric</td>
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<td>* Thyroid Gland</td>
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<td>* Trachea</td>
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### OBSERVATIONS

<table>
<thead>
<tr>
<th>Tissue</th>
<th>Condition</th>
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<tbody>
<tr>
<td>Harderian Gland</td>
<td>Pigmentation: Mild</td>
</tr>
<tr>
<td>Kidney</td>
<td>Mineralization: Minimal</td>
</tr>
<tr>
<td>Nephropathy</td>
<td>Malformation: Minimal</td>
</tr>
<tr>
<td>Lung</td>
<td>Inflammation: Chronic, Minimal</td>
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<tr>
<td>Tooth Pulp</td>
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### PRIMARY CAUSE OF DEATH
-
<table>
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<tr>
<th>ANIMAL ID: 170</th>
<th>TRT#: 2</th>
<th>SEX: Female</th>
<th>DOSE: 0 UG/KG</th>
<th>DISP: Terminal Sacrifice</th>
<th>DAY ON TEST: 94</th>
<th>HISTO: 0200720</th>
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- Adrenal Cortex
- Bone Marrow
- Eye
- Intestine Large, Colon
- Intestine Small, Jejunum
- Lymph Node, Mandibular
- Ovary
- Salivary Glands
- Stomach, Glandular
- Urinary Bladder
- Adrenal Medulla
- Brain
- Harderian Gland
- Intestine Large, Rectum
- Islets, Pancreatic
- Lymph Node, Mesenteric
- Pancreas
- Skin
- Thymus
- Uterus
- Blood Vessel
- Clitoral Gland
- Heart
- Intestine Small, Duodenum
- Liver
- Mammary Gland
- Parathyroid Gland
- Spleen
- Thyroid Gland
- Bone
- Esophagus
- Intestine Large, Cecum
- Intestine Small, Ileum
- Lung
- Nose
- Pituitary Gland
- Stomach, Foregut
- Trachea

**OBSERVATIONS**

- Kidney
  - Mineralization: Minimal

**PRIMARY CAUSE OF DEATH**

-
Experiment Number: 96013-04
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

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

Date Report Requested: 10/21/2014
Time Report Requested: 08:47:51
First Dose M/F: NA / NA
Lab: BAT

--

ANIMAL ID: 261
TRT#: 4
DOSE: 5 UG/KG
SEX: Female
DISP: Terminal Sacrifice
DAY ON TEST: 94
HISTO: 0200731

ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>NORMAL</th>
<th>Eye</th>
<th>Thyroid Gland</th>
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<tbody>
<tr>
<td>OBSERVATIONS</td>
<td></td>
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<tr>
<td>Harderian Gland</td>
<td>Pigmentation</td>
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<td>Ovary</td>
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<td></td>
<td>Cyst</td>
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<tr>
<td></td>
<td>Dilatation</td>
<td>Minimal</td>
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<tr>
<td>Uterus *</td>
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</table>

PRIMARY CAUSE OF DEATH

-
**ANIMAL ID**: 262  
**TRT#**: 4  
**DOSE**: 5 UG/KG  
**SEX**: Female  
**DISP**: Terminal Sacrifice  
**DAY ON TEST**: 94  
**HISTO**: 0200732

### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>Normal</th>
<th>Harderian Gland</th>
<th>Thyroid Gland</th>
</tr>
</thead>
</table>

**Eyeball**

- **Lymph Node, Mandibular**
  - Hyperplasia
  - Lymphoid, Minimal

**Ovary**

- **Cyst**
- **Dilatation**
- **Mild**

**PRIMARY CAUSE OF DEATH**

- **-**

---

* PROTOCOL REQUIRED TISSUE
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  

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

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:51  
**First Dose M/F:** NA / NA  
**Lab:** BAT  

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<td>DOSE: 5 UG/KG</td>
<td>DISP: Terminal Sacrifice</td>
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**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
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<th>Eye</th>
<th>Harderian Gland</th>
<th>Ovary</th>
<th>Thyroid Gland</th>
</tr>
</thead>
</table>

**OBSERVATIONS**

- * Uterus: Dilatation  
  - Mild

**PRIMARY CAUSE OF DEATH**

- 

---

* PROTOCOL REQUIRED TISSUE
**ANIMAL ID:** 264  
**TRT#:** 4  
**DOSE:** 5 UG/KG  
**SEX:** Female  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200734

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<td>Normal</td>
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<tr>
<td>Eye</td>
<td>Harderian Gland</td>
</tr>
<tr>
<td>* Uterus</td>
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</tr>
</tbody>
</table>

**PRIMARY CAUSE OF DEATH**  
-
**ANIMAL ID:** 265  
**TRT#:** 4  
**DOSE:** 5 UG/KG  
**SEX:** Female  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200735

### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>Normal Sites</th>
<th>Observations</th>
<th>Cause of Death</th>
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<tbody>
<tr>
<td>Harderian Gland</td>
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<td>Minimal</td>
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<tr>
<td>Thyroid Gland</td>
<td>Retina</td>
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<tr>
<td>* Uterus</td>
<td>Dysplasia</td>
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<tr>
<td></td>
<td>Cyst</td>
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### PRIMARY CAUSE OF DEATH

-
# INDIVIDUAL ANIMAL PATHOLOGY DATA

**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  
**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:51  
**First Dose M/F:** NA / NA  
**Lab:** BAT

## ANIMAL ID: 266

<table>
<thead>
<tr>
<th>TRT#</th>
<th>DOSE: 5 UG/KG</th>
<th>SEX: Female</th>
<th>DISP: Terminal Sacrifice</th>
<th>DAY ON TEST: 94</th>
<th>HISTO: 0200736</th>
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</thead>
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### ORGAN AND ACCOUNTABLE SITE STATUS

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<th>Harderian Gland</th>
<th>Ovary</th>
<th>Thyroid Gland</th>
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</table>

### OBSERVATIONS

<table>
<thead>
<tr>
<th>Primary Cause of Death</th>
</tr>
</thead>
</table>

* Uterus  
* Metaplasia  
* Squamous, Minimal

* PROTOCOL REQUIRED TISSUE
## P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

<table>
<thead>
<tr>
<th>Experiment Number: 96013-04</th>
<th>Test Type: 90-DAY</th>
<th>Date Report Requested: 10/21/2014</th>
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<tbody>
<tr>
<td>Route: GAVAGE</td>
<td>Test Compound: Melatonin</td>
<td>Time Report Requested: 08:47:51</td>
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<tr>
<td>Species/Strain: Rat/LONG-EVANS</td>
<td>CAS Number: 73-31-4</td>
<td>First Dose M/F: NA / NA</td>
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<td>Lab: BAT</td>
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<th>DISP: Terminal Sacrifice</th>
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### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>NORMAL</th>
<th>Eye</th>
<th>Thyroid Gland</th>
</tr>
</thead>
</table>

#### OBSERVATIONS

- **Harderian Gland**: Pigmentation, Mild
- **Ovary**: Cyst
- **Uterus**: Dilatation, Mild

#### PRIMARY CAUSE OF DEATH

- 

* PROTOCOL REQUIRED TISSUE
<table>
<thead>
<tr>
<th>ANIMAL ID: 268</th>
<th>TRT#: 4</th>
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<td>DISP: Terminal Sacrifice</td>
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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<th>Ovary</th>
<th>Thyroid Gland</th>
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<tbody>
<tr>
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<td>* Uterus</td>
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**PRIMARY CAUSE OF DEATH**

-
**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**ANIMAL ID:** 269  
**TRT#:** 4  
**DOSE:** 5 UG/KG  
**SEX:** Female  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200739  

**ORGAN AND ACCOUNTABLE SITE STATUS**

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<tr>
<td>Harderian Gland</td>
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<td>Mild</td>
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</tr>
<tr>
<td>* Uterus</td>
<td>Dilatation</td>
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**PRIMARY CAUSE OF DEATH**

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### ORGAN AND ACCOUNTABLE SITE STATUS

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<th>* Uterus</th>
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### OBSERVATIONS

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<th>Harderian Gland</th>
<th>Pigmentation</th>
<th>Mild</th>
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### PRIMARY CAUSE OF DEATH

-
**ANIMAL ID:** 361  
**TRT#:** 6  
**DOSE:** 50 UG/KG  
**SEX:** Female  
**DIA ON TEST:** 7  
**HISTO:** 0200751

### ORGAN AND ACCOUNTABLE SITE STATUS

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<td>* Intestine Large, Cecum</td>
<td>* Intestine Large, Colon</td>
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<tr>
<td>* Intestine Large, Rectum</td>
<td>* Intestine Small, Duodenum</td>
<td>* Intestine Small, Ileum</td>
<td>* Intestine Small, Jejunum</td>
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<tr>
<td>* Lymph Node, Mesenteric</td>
<td>* Mammary Gland</td>
<td>* Nose</td>
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<td>* Skin</td>
<td>* Urinary Bladder</td>
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</thead>
<tbody>
<tr>
<td>* Adrenal Cortex</td>
<td>* Adrenal Medulla</td>
<td>* Blood Vessel</td>
<td>* Brain</td>
</tr>
<tr>
<td>* Esophagus</td>
<td>Eye</td>
<td>* Harderian Gland</td>
<td>* Heart</td>
</tr>
<tr>
<td>* Islets, Pancreatic</td>
<td>* Kidney</td>
<td>* Liver</td>
<td>* Lung</td>
</tr>
<tr>
<td>* Lymph Node, Mandibular</td>
<td>* Pancreas</td>
<td>* Parathyroid Gland</td>
<td>* Pituitary Gland</td>
</tr>
<tr>
<td>* Salivary Glands</td>
<td>* Spleen</td>
<td>* Stomach, Forestomach</td>
<td>* Stomach, Glandular</td>
</tr>
<tr>
<td>* Thymus</td>
<td>* Thyroid Gland</td>
<td>* Trachea</td>
<td></td>
</tr>
</tbody>
</table>

### OBSERVATIONS

<table>
<thead>
<tr>
<th></th>
<th>Myeloid Cell</th>
<th>Hyperplasia</th>
<th>Marked</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bone Marrow</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brain</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Note: Pineal gland is missing.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Lymph Node  
[ Hyperplasia TGLS = 2-13 ]

<table>
<thead>
<tr>
<th></th>
<th>Lumbar</th>
<th>Hyperplasia</th>
<th>Plasma Cell, Moderate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lymph Node</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Ovary  
Note: One ovary was missing

* Urin Bladder  
Note: No corresponding microscopic finding for gross observation of dilated urinary bladder

### PRIMARY CAUSE OF DEATH

- UNCERTAIN
**ANIMAL ID:** 362  
**TRT#:** 6  
**DOSE:** 50 UG/KG  
**SEX:** Female  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200752

<table>
<thead>
<tr>
<th>ORGAN AND ACCOUNTABLE SITE STATUS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NORMAL</strong></td>
<td></td>
</tr>
<tr>
<td>Eye</td>
<td>* Harderian Gland</td>
</tr>
<tr>
<td><strong>OBSERVATIONS</strong></td>
<td></td>
</tr>
<tr>
<td>* Ovary</td>
<td>Cyst</td>
</tr>
<tr>
<td><strong>PRIMARY CAUSE OF DEATH</strong></td>
<td>-</td>
</tr>
</tbody>
</table>
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** Gavage  
**Species/Strain:** Rat/LONG-EVANS

---

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:51  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 363  
**TRT#:** 6  
**DOSE:** 50 UG/KG  
**SEX:** Female  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200753

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
<th>Normal</th>
<th>Eye</th>
<th>* Harderian Gland</th>
<th>* Ovary</th>
<th>* Thyroid Gland</th>
</tr>
</thead>
</table>

**OBSERVATIONS**

<table>
<thead>
<tr>
<th>* Uterus</th>
<th>Dilatation</th>
<th>Minimal</th>
</tr>
</thead>
</table>

**PRIMARY CAUSE OF DEATH**

-
### ANIMAL ID: 364

<table>
<thead>
<tr>
<th>TRT#</th>
<th>DOSE</th>
<th>SEX</th>
<th>DISP</th>
<th>DAY ON TEST</th>
<th>HISTO</th>
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</thead>
<tbody>
<tr>
<td>6</td>
<td>50 UG/KG</td>
<td>Female</td>
<td>Terminal Sacrifice</td>
<td>94</td>
<td>0200754</td>
</tr>
</tbody>
</table>

### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>NORMAL</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td>* Thyroid Gland</td>
<td>* Uterus</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OBSERVATIONS</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>* Harderian Gland</td>
<td>Pigmentation</td>
<td>Mild</td>
</tr>
<tr>
<td>* Ovary</td>
<td>Cyst</td>
<td></td>
</tr>
</tbody>
</table>

### PRIMARY CAUSE OF DEATH

-
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** Gavage  
**Species/Strain:** Rat/Long-Evans  
**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:51  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<table>
<thead>
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<th>ANIMAL ID: 365</th>
<th>TRT#: 6</th>
<th>DOSE: 50 UG/KG</th>
<th>SEX: Female</th>
<th>DISP: Terminal Sacrifice</th>
<th>DAY ON TEST: 94</th>
<th>HISTO: 0200755</th>
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</table>

**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td></td>
</tr>
<tr>
<td>* Harderian Gland</td>
<td></td>
</tr>
<tr>
<td>* Ovary</td>
<td></td>
</tr>
<tr>
<td>* Thyroid Gland</td>
<td></td>
</tr>
<tr>
<td>* Uterus</td>
<td></td>
</tr>
</tbody>
</table>

**OBSERVATIONS**

<table>
<thead>
<tr>
<th>Vagina</th>
<th>Cyst</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ Cyst TGLS = 1-13 ]</td>
<td></td>
</tr>
</tbody>
</table>

**PRIMARY CAUSE OF DEATH**

-
Experiment Number: 96013-04  
Test Type: 90-DAY  
Route: GAVAGE  
Species/Strain: Rat/LONG-EVANS  

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:51  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<table>
<thead>
<tr>
<th>ANIMAL ID: 366</th>
<th>TRT#: 6</th>
<th>DOSE: 50 UG/KG</th>
<th>SEX: Female</th>
<th>DISP: Terminal Sacrifice</th>
<th>DAY ON TEST: 94</th>
<th>HISTO: 0200756</th>
</tr>
</thead>
</table>

**NORMAL**

<table>
<thead>
<tr>
<th>Eye</th>
<th>* Harderian Gland</th>
<th>* Thyroid Gland</th>
<th>* Uterus</th>
</tr>
</thead>
</table>

**OBSERVATIONS**

<table>
<thead>
<tr>
<th>* Ovary</th>
<th>Angiectasis</th>
<th>Moderate</th>
</tr>
</thead>
</table>

**PRIMARY CAUSE OF DEATH**

-
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS

---

### P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:51  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 367  
**TRT#:** 6  
**DOSE:** 50 UG/KG  
**SEX:** Female  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200757

---

### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>Normal</th>
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<th></th>
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</thead>
<tbody>
<tr>
<td>Eye</td>
<td>* Harderian Gland</td>
<td>* Thyroid Gland</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### OBSERVATIONS

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>* Ovary</td>
<td>Cyst</td>
<td></td>
</tr>
<tr>
<td>* Uterus</td>
<td>Dilatation</td>
<td></td>
</tr>
</tbody>
</table>

### PRIMARY CAUSE OF DEATH

-
**ANIMAL ID:** 368  
**TRT#:** 6  
**DOSE:** 50 UG/KG  
**SEX:** Female  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200758

### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>Normal</th>
<th>Observations</th>
</tr>
</thead>
</table>
| Eye    | * Harderian Gland  
|        | * Thyroid Gland  
|        | * Uterus       |
|        | * Ovary  
|        | Cyst          |

**PRIMARY CAUSE OF DEATH:** -

* PROTOCOL REQUIRED TISSUE
Experiment Number: 96013-04
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Melatonin
CAS Number: 73-31-4

Date Report Requested: 10/21/2014
Time Report Requested: 08:47:51
First Dose M/F: NA / NA
Lab: BAT

<table>
<thead>
<tr>
<th>ANIMAL ID: 369</th>
<th>TRT#: 6</th>
<th>DOSE: 50 UG/KG</th>
<th>SEX: Female</th>
<th>DISP: Terminal Sacrifice</th>
<th>DAY ON TEST: 94</th>
<th>HISTO: 0200759</th>
</tr>
</thead>
</table>

**NORMAL**

- Eye
- * Harderian Gland
- * Uterus
- * Ovary
- * Thyroid Gland

**PRIMARY CAUSE OF DEATH**

- 

* PROTOCOL REQUIRED TISSUE
P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Experiment Number: 96013-04
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

Date Report Requested: 10/21/2014
Time Report Requested: 08:47:51
First Dose M/F: NA / NA
Lab: BAT

<table>
<thead>
<tr>
<th>ANIMAL ID: 370</th>
<th>TRT#: 6</th>
<th>SEX: Female</th>
<th>DAY ON TEST: 94</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOSE: 50 UG/KG</td>
<td>DISP: Terminal Sacrifice</td>
<td>HISTO: 0200760</td>
<td></td>
</tr>
</tbody>
</table>

**NORMAL**

| Eye | * Harderian Gland | * Ovary | * Thyroid Gland |

**OBSERVATIONS**

| * Uterus | Dilatation | Mild |

**PRIMARY CAUSE OF DEATH**

-
Experiment Number: 96013-04
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

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

Date Report Requested: 10/21/2014
Time Report Requested: 08:47:51
First Dose M/F: NA / NA
Lab: BAT

ANIMAL ID: 461
TRT#: 8
DOSE: 5000 UG/KG
SEX: Female
Disp: Terminal Sacrifice
DAY ON TEST: 94
HISTO: 0200771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye
Harderian Gland
Ovary
Thyroid Gland

OBSERVATIONS

* Uterus
Dilatation
Mild

PRIMARY CAUSE OF DEATH
-

* PROTOCOL REQUIRED TISSUE
### P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  
**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:51  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 462  
**TRT#:** 8  
**DOSE:** 5000 UG/KG  
**SEX:** Female  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200772

---

#### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>Normal</th>
<th>Eye</th>
<th>Harderian Gland</th>
<th>Ovary</th>
<th>Thyroid Gland</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Uterus</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### PRIMARY CAUSE OF DEATH

-
### P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

<table>
<thead>
<tr>
<th>Experiment Number: 96013-04</th>
<th>Test Type: 90-DAY</th>
<th>Date Report Requested: 10/21/2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Compound: Melatonin</td>
<td>Time Report Requested: 08:47:51</td>
<td></td>
</tr>
<tr>
<td>CAS Number: 73-31-4</td>
<td>First Dose M/F: NA / NA</td>
<td></td>
</tr>
<tr>
<td>Route: GAVAGE</td>
<td>Lab: BAT</td>
<td></td>
</tr>
<tr>
<td>Species/Strain: Rat/LONG-EVANS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ANIMAL ID: 463</th>
<th>TRT#: 8</th>
<th>SEX: Female</th>
<th>DOSE: 5000 UG/KG</th>
<th>DISP: Terminal Sacrifice</th>
<th>DAY ON TEST: 94</th>
<th>HISTO: 0200773</th>
</tr>
</thead>
</table>

**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
<th>NORMAL</th>
<th>Eye</th>
<th>Harderian Gland</th>
<th>Thyroid Gland</th>
<th>* Uterus</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBSERVATIONS</td>
<td>Ovary</td>
<td>Cyst</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PRIMARY CAUSE OF DEATH**

-
<table>
<thead>
<tr>
<th>ANIMAL ID: 464</th>
<th>TRT#: 8</th>
<th>SEX: Female</th>
<th>DAY ON TEST: 94</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOSE: 5000 UG/KG</td>
<td>DISP: Terminal Sacrifice</td>
<td>HISTO: 0200774</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NORMAL</th>
<th>Thyroid Gland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ovary</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OBSERVATIONS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td>Cornea</td>
</tr>
<tr>
<td>Iris</td>
<td>Inflammation</td>
</tr>
<tr>
<td></td>
<td>Synechia</td>
</tr>
<tr>
<td></td>
<td>Chronic, Mild</td>
</tr>
<tr>
<td>Harderian Gland</td>
<td>Pigmentation</td>
</tr>
<tr>
<td>* Uterus</td>
<td>Dilatation</td>
</tr>
<tr>
<td></td>
<td>Minimal</td>
</tr>
</tbody>
</table>

| PRIMARY CAUSE OF DEATH | - |

* PROTOCOL REQUIRED TISSUE
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  
**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:51  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<table>
<thead>
<tr>
<th>ANIMAL ID: 465</th>
<th>TRT#: 8</th>
<th>SEX: Female</th>
<th>DOSE: 5000 UG/KG</th>
<th>DISP: Terminal Sacrifice</th>
<th>DAY ON TEST: 94</th>
<th>HISTO: 0200775</th>
</tr>
</thead>
</table>

**NORMAL**

<table>
<thead>
<tr>
<th>Eye</th>
<th>Thyroid Gland</th>
</tr>
</thead>
</table>

**OBSERVATIONS**

- Harderian Gland: Pigmentation, Mild
- Ovary: Cyst
- * Uterus: Dilatation, Mild

**PRIMARY CAUSE OF DEATH**

-
<table>
<thead>
<tr>
<th>ANIMAL ID: 466</th>
<th>TRT#: 8</th>
<th>SEX: Female</th>
<th>DAY ON TEST: 94</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOSE: 5000 UG/KG</td>
<td>DISP: Terminal Sacrifice</td>
<td>HISTO: 0200776</td>
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</tr>
</tbody>
</table>

**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
<th>Eye</th>
<th>Ovary</th>
<th>Thyroid Gland</th>
<th>* Uterus</th>
</tr>
</thead>
</table>
| NORMAL | | | *
| OBSERVATIONS | | | |
| Harderian Gland | Pigmentation | | Mild |

**PRIMARY CAUSE OF DEATH**

-
Experiment Number: 96013-04
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

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

Date Report Requested: 10/21/2014
Time Report Requested: 08:47:51
First Dose M/F: NA / NA
Lab: BAT

<table>
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<tr>
<th>ANIMAL ID: 467</th>
<th>TRT#: 8</th>
<th>SEX: Female</th>
<th>DAY ON TEST: 94</th>
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</thead>
<tbody>
<tr>
<td>DOSE: 5000 UG/KG</td>
<td>DISP: Terminal Sacrifice</td>
<td>HISTO: 0200777</td>
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</tr>
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</table>

**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
<th>NORMAL</th>
<th>Eye</th>
<th>Harderian Gland</th>
<th>Thyroid Gland</th>
</tr>
</thead>
</table>

**OBSERVATIONS**

<table>
<thead>
<tr>
<th>Ovary</th>
<th>Cyst</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Uterus</td>
<td>Dilatation</td>
</tr>
</tbody>
</table>

**PRIMARY CAUSE OF DEATH**

-
<table>
<thead>
<tr>
<th>ANIMAL ID: 468</th>
<th>TRT#: 8</th>
<th>SEX: Female</th>
<th>DAY ON TEST: 94</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOSE: 5000 UG/KG</td>
<td>DISP: Terminal Sacrifice</td>
<td>HISTO: 0200778</td>
<td></td>
</tr>
</tbody>
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**ANIMAL ID:** 468  
**TRT#:** 8  
**DOSE:** 5000 UG/KG  
**SEX:** Female  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200778

### NORMAL

<table>
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<th>Organ</th>
<th>Status</th>
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<tbody>
<tr>
<td>Eye</td>
<td></td>
</tr>
<tr>
<td>Ovary</td>
<td></td>
</tr>
<tr>
<td>Thyroid Gland</td>
<td></td>
</tr>
</tbody>
</table>

**OBSERVATIONS**

<table>
<thead>
<tr>
<th>Organ</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harderian Gland</td>
<td>Pigmentation Mild</td>
</tr>
<tr>
<td>* Uterus</td>
<td>Dilatation Minimal</td>
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</tbody>
</table>

**PRIMARY CAUSE OF DEATH**

-
Experiment Number: 96013-04  
Test Type: 90-DAY  
Route: GAVAGE  
Species/Strain: Rat/LONG-EVANS  

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Melatonin  
CAS Number: 73-31-4  

Date Report Requested: 10/21/2014  
Time Report Requested: 08:47:51  
First Dose M/F: NA / NA  
Lab: BAT  

---  

ANIMAL ID: 469  
TRT#: 8  
DOSE: 5000 UG/KG  
SEX: Female  
DISP: Terminal Sacrifice  
DAY ON TEST: 94  
HISTO: 0200779  

**ORGAN AND ACCOUNTABLE SITE STATUS**  

<table>
<thead>
<tr>
<th></th>
<th>Normal</th>
<th>Normal</th>
<th>Normal</th>
<th>Normal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Eye</td>
<td>Harderian Gland</td>
<td>Thyroid Gland</td>
<td>* Uterus</td>
</tr>
<tr>
<td><strong>OBSERVATIONS</strong></td>
<td>Cyst</td>
<td>Cyst</td>
<td>Cyst</td>
<td>Cyst</td>
</tr>
<tr>
<td><strong>PRIMARY CAUSE OF DEATH</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>
ANIMAL ID: 470  TRT#: 8  SEX: Female  DAY ON TEST: 94
DOSE: 5000 UG/KG  DISP: Terminal Sacrifice  HISTO: 0200780

<table>
<thead>
<tr>
<th>NORMAL</th>
<th></th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>Eye</td>
<td>Harderian Gland</td>
<td>Ovary</td>
<td>Thyroid Gland</td>
</tr>
<tr>
<td>* Uterus</td>
<td></td>
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</table>

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE
<table>
<thead>
<tr>
<th>ANIMAL ID: 561</th>
<th>TRT#: 10</th>
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<th>DAY ON TEST: 94</th>
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<tbody>
<tr>
<td>DOSE: 50,000 UG/KG</td>
<td>DISP: Terminal Sacrifice</td>
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

<table>
<thead>
<tr>
<th>Eye</th>
<th>Thyroid Gland</th>
</tr>
</thead>
</table>

**OBSERVATIONS**

- Harderian Gland
- Ovary
  - Note: Cyst in Corpora Lutea.
- Uterus

* Pigmentation Mild
* Cyst
* Dilatation Mild

**PRIMARY CAUSE OF DEATH**

-
Experiment Number: 96013-04  Date Report Requested: 10/21/2014
Test Type: 90-DAY  Time Report Requested: 08:47:51
Route: GAVAGE  First Dose M/F: NA / NA
Species/Strain: Rat/LONG-EVANS  Lab: BAT

<table>
<thead>
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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<th>Thyroid Gland</th>
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</thead>
<tbody>
<tr>
<td>OBSERVATIONS</td>
<td>Ovary</td>
<td>Cyst</td>
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</tr>
<tr>
<td>Note: Cyst in Corpora Lutea.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Uterus</td>
<td>Dilatation</td>
<td>Minimal</td>
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</tr>
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</table>

**PRIMARY CAUSE OF DEATH**

-
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  

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

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:51  
**First Dose M/F:** NA / NA  
**Lab:** BAT  

---

**ANIMAL ID:** 563  
**TRT#:** 10  
**DOSE:** 50,000 UG/KG  
**SEX:** Female  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200793

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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<thead>
<tr>
<th>NORMAL</th>
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<th>Thyroid Gland</th>
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</thead>
<tbody>
<tr>
<td>OBSERVATIONS</td>
<td>Harderian Gland</td>
<td>Pigmentation</td>
<td>Mild</td>
</tr>
<tr>
<td>* Uterus</td>
<td>Dilatation</td>
<td>Mild</td>
<td></td>
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**PRIMARY CAUSE OF DEATH** -

---

* PROTOCOL REQUIRED TISSUE
Experiment Number: 96013-04
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

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<thead>
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<td>DISP: Terminal Sacrifice</td>
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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<th>Eye</th>
<th>Harderian Gland</th>
<th>Ovary</th>
<th>Thyroid Gland</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBSERVATIONS</td>
<td>* Uterus</td>
<td>Dilatation</td>
<td>Minimal</td>
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</table>

**PRIMARY CAUSE OF DEATH**
-
<table>
<thead>
<tr>
<th>ANIMAL ID</th>
<th>TRT#</th>
<th>DOSE</th>
<th>SEX</th>
<th>DISP</th>
<th>DAY ON TEST</th>
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<tbody>
<tr>
<td>565</td>
<td>10</td>
<td>50,000 UG/KG</td>
<td>Female</td>
<td>Terminal Sacrifice</td>
<td>94</td>
<td>0200795</td>
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**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
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<th>Eye</th>
<th>Ovary</th>
<th>Thyroid Gland</th>
<th>* Uterus</th>
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</thead>
<tbody>
<tr>
<td>OBSERVATIONS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Harderian Gland</td>
<td>Pigmentation</td>
<td>Mild</td>
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**PRIMARY CAUSE OF DEATH**

-
**ANIMAL ID:** 566  
**TRT#:** 10  
**DOSE:** 50,000 UG/KG  
**SEX:** Female  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200796

### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>Organ and Accountable Site</th>
<th>Status</th>
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<tbody>
<tr>
<td>Normal Eye</td>
<td></td>
</tr>
<tr>
<td>Normal Thyroid Gland</td>
<td></td>
</tr>
<tr>
<td>Harderian Gland</td>
<td>Pigmentation Mild</td>
</tr>
<tr>
<td>Ovary</td>
<td>Cyst</td>
</tr>
<tr>
<td>Utterus</td>
<td>Dilatation Mild</td>
</tr>
</tbody>
</table>

#### OBSERVATIONS

- Harderian Gland: Pigmentation Mild
- Ovary: Cyst
- Note: Cyst in Corpora Lutea.
- Uterus: Dilatation Mild

#### PRIMARY CAUSE OF DEATH

-
**ANIMAL ID:** 567  
**TRT#:** 10  
**DOSE:** 50,000 UG/KG  
**SEX:** Female  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200797

### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>NORMAL</th>
<th>Eye</th>
<th>Ovary</th>
<th>Thyroid Gland</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBSERVATIONS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Harderian Gland</td>
<td></td>
<td>Pigmentation</td>
<td>Mild</td>
</tr>
<tr>
<td>* Uterus</td>
<td></td>
<td>Dilatation</td>
<td>Mild</td>
</tr>
<tr>
<td>[ Dilatation TGLS = 1-11 ]</td>
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<td></td>
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**PRIMARY CAUSE OF DEATH**  -
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS

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

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:51  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 568  
**TRT#:** 10  
**DOSE:** 50,000 UG/KG  
**SEX:** Female  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200798

---

<table>
<thead>
<tr>
<th>ORGAN AND ACCOUNTABLE SITE STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NORMAL</strong></td>
</tr>
<tr>
<td>Eye</td>
</tr>
<tr>
<td>Thyroid Gland</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OBSERVATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harderian Gland</td>
</tr>
<tr>
<td>Pigmentation, Mild</td>
</tr>
<tr>
<td>Ovary</td>
</tr>
<tr>
<td>Cyst</td>
</tr>
<tr>
<td>* Uterus</td>
</tr>
<tr>
<td>Dilatation, Minimal</td>
</tr>
<tr>
<td>Note: Cyst in Corpora Lutea.</td>
</tr>
<tr>
<td>Metaplasia, Squamous, Minimal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRIMARY CAUSE OF DEATH</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
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</tbody>
</table>

* PROTOCOL REQUIRED TISSUE
ANIMAL ID: 569  TRT#: 10  SEX: Female  DAY ON TEST: 94
DOSE: 50,000 UG/KG  DISP: Terminal Sacrifice  HISTO: 0200799

ORGAN AND ACCOUNTABLE SITE STATUS

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</thead>
<tbody>
<tr>
<td>Eye</td>
<td>Thyroid Gland</td>
<td></td>
</tr>
</tbody>
</table>

**OBSERVATIONS**

- Harderian Gland: Pigmentation, Mild
- Ovary: Cyst

Note: Cyst in Corpora Lutea.

- Uterus: Dilatation, Minimal

**PRIMARY CAUSE OF DEATH**

-
**ANIMAL ID:** 570  
**TRT#:** 10  
**DOSE:** 50,000 UG/KG  
**SEX:** Female  
**DISP:** Terminal Sacrifice  
**DAY ON TEST:** 94  
**HISTO:** 0200800

### ORGAN AND ACCOUNTABLE SITE STATUS

| NORMAL | | | | |
|--------|--------|--------|--------|
| Eye    | Thyroid Gland | * Uterus |

### OBSERVATIONS

- Harderian Gland  
  - Pigmentation  
  - Mild
- Ovary  
  - Cyst

*Note: Cyst in Corpora Lutea.*

### PRIMARY CAUSE OF DEATH

-
**ANIMAL ID:** 661  **TRT#:** 12  **SEX:** Female  **DAY ON TEST:** 94

**DOSE:** 200,000 UG/KG  **DISP:** Terminal Sacrifice  **HISTO:** 0200811

### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
<th>NORMAL</th>
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</thead>
<tbody>
<tr>
<td>* Adrenal Cortex</td>
<td>* Adrenal Medulla</td>
<td>* Blood Vessel</td>
<td>* Bone</td>
</tr>
<tr>
<td>* Bone Marrow</td>
<td>* Brain</td>
<td>* Clitoral Gland</td>
<td>* Esophagus</td>
</tr>
<tr>
<td>Eye</td>
<td>* Harderian Gland</td>
<td>* Heart</td>
<td>* Intestine Large, Cecum</td>
</tr>
<tr>
<td>* Intestine Large, Colon</td>
<td>* Intestine Large, Rectum</td>
<td>* Intestine Small, Duodenum</td>
<td>* Intestine Small, Ileum</td>
</tr>
<tr>
<td>* Intestine Small, Jejunum</td>
<td>* Islets, Pancreatic</td>
<td>* Liver</td>
<td>* Lung</td>
</tr>
<tr>
<td>* Lymph Node, Mandibular</td>
<td>* Lymph Node, Mesenteric</td>
<td>* Mammary Gland</td>
<td>* Nose</td>
</tr>
<tr>
<td>* Ovary</td>
<td>* Pancreas</td>
<td>* Parathyroid Gland</td>
<td>* Pituitary Gland</td>
</tr>
<tr>
<td>* Salivary Glands</td>
<td>* Skin</td>
<td>* Spleen</td>
<td>* Stomach, Foregut</td>
</tr>
<tr>
<td>* Stomach, Glandular</td>
<td>* Thymus</td>
<td>* Thyroid Gland</td>
<td>* Trachea</td>
</tr>
</tbody>
</table>

| * Urinary Bladder |  |  |  |

### OBSERVATIONS

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>* Kidney</td>
<td>Mineralization</td>
<td>Minimal</td>
</tr>
<tr>
<td>* Uterus</td>
<td>Dilatation</td>
<td>Mild</td>
</tr>
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### PRIMARY CAUSE OF DEATH

-
Experiment Number: 96013-04
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/LONG-EVANS

<table>
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<tr>
<th>ANIMAL ID: 662</th>
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<th>DOSE: 200,000 UG/KG</th>
<th>SEX: Female</th>
<th>DISP: Terminal Sacrifice</th>
<th>HISTO: 0200812</th>
<th>DAY ON TEST: 94</th>
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</thead>
</table>

**NORMAL**
- * Adrenal Cortex
- * Bone Marrow
- Eye
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Spleen
- * Thyroid Gland

**OBSERVATIONS**
- * Harderian Gland
- * Kidney
- * Ovary
  - Note: Cyst in Corpora Lutea.

**PRIMARY CAUSE OF DEATH**
- }

**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
<th>Normal</th>
<th>Blood Vessel</th>
<th>Adrenal Medulla</th>
<th>Blood Vessel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bone</td>
<td>Bone Marrow</td>
<td>Heart</td>
<td>Bone Marrow</td>
</tr>
<tr>
<td>Esophagus</td>
<td>Liver</td>
<td>Intestine Large, Cecum</td>
<td>Esophagus</td>
</tr>
<tr>
<td>Intestine Small, Ileum</td>
<td>Lung</td>
<td>Intestine Small, Jejunum</td>
<td>Intestine Small, Colon</td>
</tr>
<tr>
<td>Lymph Small, Jejunum</td>
<td>Nasal Glands</td>
<td>Pancreas, Mandibular</td>
<td>Pancreas</td>
</tr>
<tr>
<td>Adrenal Cortex</td>
<td>Intestine Small, Duodenum</td>
<td>Skin</td>
<td>Skin</td>
</tr>
<tr>
<td>Brain</td>
<td>Intestine Small, Duodenum</td>
<td>Thymus</td>
<td>Thymus</td>
</tr>
<tr>
<td>Heart</td>
<td>Liver</td>
<td>Stomach, Glandular</td>
<td>Stomach, Glandular</td>
</tr>
<tr>
<td>Brain</td>
<td>Pancreas</td>
<td>Trachea</td>
<td>Trachea</td>
</tr>
<tr>
<td>Brain</td>
<td>Urinary Bladder</td>
<td>Urinary Bladder</td>
<td>Urinary Bladder</td>
</tr>
</tbody>
</table>

**Note:**
- Pigmentation
- Hyperplasia
- Mineralization
- Nephropathy
- Cyst

- Mild
- Minimal
- Minimal
- Minimal

* PROTOCOL REQUIRED TISSUE
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  
**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:51  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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</table>

### ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- Adrenal Cortex  
- Bone Marrow  
- Eye  
- Intestine Large, Rectum  
- Islets, Pancreatic  
- Mammary Gland  
- Parathyroid Gland  
- Spleen  
- Thyroid Gland  
- Adrenal Medulla  
- Brain  
- Heart  
- Intestine Small, Duodenum  
- Lung  
- Nose  
- Parotid Gland  
- Stomach, Foregut  
- Trachea  
- Blood Vessel  
- Clitoral Gland  
- Intestine Large, Cecum  
- Intestine Small, Ileum  
- Lymph Node, Mandibular  
- Ovary  
- Salivary Glands  
- Stomach, Glandular  
- Urinary Bladder  
- Bone  
- Esophagus  
- Intestine Large, Colon  
- Intestine Small, Jejunum  
- Lymph Node, Mesenteric  
- Pancreas  
- Skin  
- Thymus

### OBSERVATIONS

- Harderian Gland  
- Kidney  
- Liver  
- Tooth  
- Uterus  
- Pigmentation  
- Nephropathy  
- Inflammation  
- Pulp  
- Malformation  
- Dilatation  
- Mild  
- Minimal  
- Chronic, Minimal  
- Minimal  
- Mild

**PRIMARY CAUSE OF DEATH**

- -

* PROTOCOL REQUIRED TISSUE
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  

**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:51  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<th>DOSE:</th>
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<td>200,000 UG/KG</td>
<td>Female</td>
<td>Terminal Sacrifice</td>
<td>94</td>
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### ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- Adrenal Cortex
- Bone Marrow
- Eye
- Intestine Large, Rectum
- Islets, Pancreatic
- Mammary Gland
- Pituitary Gland
- Stomach, Foremostach
- Trachea
- Adrenal Medulla
- Brain
- Heart
- Intestine Small, Duodenum
- Lung
- Nose
- Salivary Glands
- Stomach, Glandular
- Urinary Bladder
- Blood Vessel
- Clitoral Gland
- Intestine Large, Cecum
- Intestine Small, Ileum
- Lymph Node, Mandibular
- Pancreas
- Skin
- Thymus
- Bone
- Esophagus
- Intestine Large, Colon
- Intestine Small, Jejunum
- Lymph Node, Mesenteric
- Parathyroid Gland
- Spleen
- Thyroid Gland

### OBSERVATIONS

- Harderian Gland: Pigmentation, Mild
- Kidney: Mineralization, Minimal
- Liver: Nephropathy, Minimal
- Ovary: Inflammation, Chronic, Minimal
- Thyroid Gl: Cyst
- Note: Cyst in Corpora Lutea.
- Tooth: Only one thyroid present on slides
- Pulp: Malformation, Minimal
- Uterus: Dilatation, Mild

### PRIMARY CAUSE OF DEATH

- -

* PROTOCOL REQUIRED TISSUE
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS

---

### P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

---

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:51  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 665  
**TRT#:** 12  
**DOSE:** 200,000 UG/KG  
**SEX:** Female  
**DAY ON TEST:** 94  
**DISP:** Terminal Sacrifice  
**HISTO:** 0200815

---

#### ORGAN AND ACCOUNTABLE SITE STATUS

<table>
<thead>
<tr>
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<th>* Adrenal Cortex</th>
<th>* Adrenal Medulla</th>
<th>* Blood Vessel</th>
<th>* Bone</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>* Bone Marrow</td>
<td>* Brain</td>
<td>* Clitoral Gland</td>
<td>* Esophagus</td>
</tr>
<tr>
<td>Eye</td>
<td>* Heart</td>
<td>* Intestine Small, Duodenum</td>
<td>* Intestine Large, Cecum</td>
<td>* Intestine Large, Colon</td>
</tr>
<tr>
<td>* Intestine Large, Rectum</td>
<td>* Intestine Small, Ileum</td>
<td>* Lung</td>
<td>* Intestine Small, Jejunum</td>
<td></td>
</tr>
<tr>
<td>* Islets, Pancreatic</td>
<td>* Liver</td>
<td>* Nose</td>
<td>* Lymph Node, Mandibular</td>
<td></td>
</tr>
<tr>
<td>* Lymph Node, Mesenteric</td>
<td>* Mammary Gland</td>
<td>* Salivary Glands</td>
<td>* Pancreas</td>
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</tr>
<tr>
<td>* Spleen</td>
<td>* Parathyroid Gland</td>
<td>* Stomach, Glandular</td>
<td>* Skin</td>
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<tr>
<td>* Thyroid Gland</td>
<td>* Stomach, Forestomach</td>
<td>* Trachea</td>
<td>* Thymus</td>
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</table>

<table>
<thead>
<tr>
<th>OBSERVATIONS</th>
<th>Pigmentation</th>
<th>Mild</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Nephropathy</td>
<td>Minimal</td>
</tr>
<tr>
<td></td>
<td>Cyst</td>
<td></td>
</tr>
<tr>
<td>* Ovary</td>
<td></td>
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<tr>
<td>Note: Cyst in corpora lutea.</td>
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<table>
<thead>
<tr>
<th>* Uterus</th>
<th>Dilatation</th>
<th>Mild</th>
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**PRIMARY CAUSE OF DEATH:** -

---

* PROTOCOL REQUIRED TISSUE
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  
**Test Compound:** Melatonin  
**CAS Number:** 73-31-4  
**Date Report Requested:** 10/21/2014  
**Time Requested:** 08:47:51  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<tr>
<td>DOSE: 200,000 UG/KG</td>
<td>DISP: Terminal Sacrifice</td>
<td>HISTO: 0200816</td>
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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<tr>
<th>NORMAL</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>* Adrenal Cortex</td>
<td>* Adrenal Medulla</td>
<td>* Blood Vessel</td>
<td>* Bone</td>
</tr>
<tr>
<td>* Bone Marrow</td>
<td>* Brain</td>
<td>* Clitoral Gland</td>
<td>* Esophagus</td>
</tr>
<tr>
<td>Eye</td>
<td>* Heart</td>
<td>* Intestine Large, Cecum</td>
<td>* Intestine Large, Colon</td>
</tr>
<tr>
<td>* Intestine Large, Rectum</td>
<td>* Intestine Small, Duodenum</td>
<td>* Intestine Small, Ileum</td>
<td>* Intestine Small, Jejunum</td>
</tr>
<tr>
<td>* Islets, Pancreatic</td>
<td>* Lung</td>
<td>* Lymph Node, Mandibular</td>
<td>* Lymph Node, Mesenteric</td>
</tr>
<tr>
<td>* Mammary Gland</td>
<td>* Nose</td>
<td>* Ovary</td>
<td>* Pancreas</td>
</tr>
<tr>
<td>* Parathyroid Gland</td>
<td>* Pituitary Gland</td>
<td>* Salivary Glands</td>
<td>* Skin</td>
</tr>
<tr>
<td>* Spleen</td>
<td>* Stomach, Forestomach</td>
<td>* Stomach, Glandular</td>
<td>* Thymus</td>
</tr>
<tr>
<td>* Thyroid Gland</td>
<td>* Trachea</td>
<td>* Urinary Bladder</td>
<td></td>
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</table>

**OBSERVATIONS**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>* Harderian Gland</td>
<td>Pigmentation</td>
<td>Mild</td>
</tr>
<tr>
<td>* Kidney</td>
<td>Mineralization</td>
<td>Minimal</td>
</tr>
<tr>
<td>* Liver</td>
<td>Nephropathy</td>
<td>Minimal</td>
</tr>
<tr>
<td>Tooth</td>
<td>Inflammation</td>
<td>Chronic, Minimal</td>
</tr>
<tr>
<td>* Uterus</td>
<td>Pulp</td>
<td>Malformation</td>
</tr>
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<td></td>
<td></td>
<td>Dilatation</td>
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**PRIMARY CAUSE OF DEATH**

-
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  
**CAS Number:** 73-31-4

<table>
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**ORGAN AND ACCOUNTABLE SITE STATUS**

<table>
<thead>
<tr>
<th>NORMAL</th>
<th>ADRENAL CORTTEX</th>
<th>ADRENAL MEDULLA</th>
<th>BLOOD VESSEL</th>
<th>BONE</th>
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</thead>
<tbody>
<tr>
<td>EYE</td>
<td>BONE MARROW</td>
<td>BRAIN</td>
<td>HEART</td>
<td>ESOPHAGUS</td>
</tr>
<tr>
<td>INTESINE LARGE, COLON</td>
<td>HARDERIAN GLAND</td>
<td>INTESINE LARGE,RECTUM</td>
<td>INTESTINE SMALL, DUODENUM</td>
<td>INTESTINE LARGE, CECUM</td>
</tr>
<tr>
<td>INTESINE SMALL, JEJUNUM</td>
<td>ISLETS, PANCREATIC</td>
<td>MAMMARY GLAND</td>
<td>LUNG</td>
<td>LYMPH NODE, MANDIBULAR</td>
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<tr>
<td>LYMPH NODE, MESENTERIC</td>
<td>PARATHYROID GLAND</td>
<td>SPLEEN</td>
<td>NOSE</td>
<td>OVARY</td>
</tr>
<tr>
<td>SKIN</td>
<td>THYMUS</td>
<td>THYROID GLAND</td>
<td>PILOTAIR GLAND</td>
<td>SALIVARY GLANDS</td>
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<tr>
<td>UTERUS</td>
<td></td>
<td></td>
<td>STOMACH, FORESTOMACH</td>
<td>STOMACH, GLANDULAR</td>
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**OBSERVATIONS**

<table>
<thead>
<tr>
<th>KIDNEY</th>
<th>LIVER</th>
<th>TOOTH</th>
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**PRIMARY CAUSE OF DEATH**

-
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS

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**Organ and Accountable Site Status**

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<th>Adrenal Medulla</th>
<th>Blood Vessel</th>
<th>Bone</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Bone Marrow</td>
<td>Clitoral Gland</td>
<td>Esophagus</td>
<td>Eye</td>
</tr>
<tr>
<td></td>
<td>Harderian Gland</td>
<td>Heart</td>
<td>Intestine Large, Cecum</td>
<td>Intestine Large, Colon</td>
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<tr>
<td></td>
<td>Intestine Large, Rectum</td>
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</tr>
<tr>
<td></td>
<td>Islets, Pancreatic</td>
<td>Liver</td>
<td>Lymph Node, Mandibular</td>
<td>Lymph Node, Mesenteric</td>
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<tr>
<td></td>
<td>Mammary Gland</td>
<td>Nose</td>
<td>Parathyroid Gland</td>
<td>Pituitary Gland</td>
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<tr>
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<td>Salivary Glands</td>
<td>Skin</td>
<td>Spleen</td>
<td>Stomach, Foregut</td>
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<tr>
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<td>Stomach, Glandular</td>
<td>Thymus</td>
<td>Thyroid Gland</td>
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<tr>
<td></td>
<td>Urinary Bladder</td>
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**Observations**

<table>
<thead>
<tr>
<th>Brain</th>
<th>Cranial Nerve Degeneration</th>
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<tbody>
<tr>
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<td>Kidney</td>
<td>Mineralization</td>
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<td>Nephropathy</td>
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<td>Lung</td>
<td>Metaplasia</td>
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<td>Ovary</td>
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<td>Pancreas</td>
<td>Acinus</td>
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<tr>
<td></td>
<td>Uterus</td>
<td>Dilatation</td>
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**Primary Cause of Death**

-
**Experiment Number:** 96013-04  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/LONG-EVANS  

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

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

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 08:47:51  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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</thead>
<tbody>
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</tr>
<tr>
<td>* Trachea</td>
<td>* Urinary Bladder</td>
<td></td>
</tr>
</tbody>
</table>

**NORMAL**

* Bone  
* Eye  
* Intestine Large, Rectum  
* Islets, Pancreatic  
* Lymph Node, Mesenteric  
* Parathyroid Gland  
* Spleen  
* Thyroid Gland

**OBSERVATIONS**

* Esophagus  
* Harderian Gland  
* Kidney  
* Ovary  
* Uterus

Inflammation  
Pigmentation  
Mineralization  
Nephropathy  
Cyst  
Dilatation

Chronic, Mild  
Mild  
Minimal  
Minimal  
Mild

**PRIMARY CAUSE OF DEATH**

-
**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

- **Test Compound:** Melatonin  
- **CAS Number:** 73-31-4  
- **Experiment Number:** 96013-04  
- **Test Type:** 90-DAY  
- **Species/Strain:** Rat/LONG-EVANS  
- **Route:** GAVAGE  
- **Lab:** BAT  
- **Date Report Requested:** 10/21/2014  
- **Time Report Requested:** 08:47:51  
- **First Dose M/F:** NA / NA  

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<tr>
<th>ANIMAL ID</th>
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<th>SEX</th>
<th>DISP</th>
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<th>ORGAN AND ACCOUNTABLE SITE STATUS</th>
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<tr>
<td>NORMAL</td>
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<tr>
<td>* Adrenal Cortex</td>
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<td>* Thymus</td>
</tr>
<tr>
<td>* Blood Vessel</td>
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<tr>
<td>* Clitoral Gland</td>
</tr>
<tr>
<td>* Heart</td>
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<tr>
<td>* Intestine Small, Duodenum</td>
</tr>
<tr>
<td>* Kidney</td>
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<td>* Mammary Gland</td>
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<td>* Trachea</td>
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<tbody>
<tr>
<td>* Liver</td>
</tr>
<tr>
<td>* Uterus</td>
</tr>
<tr>
<td>Inflammation</td>
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<td>Dilatation</td>
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<td>Chronic, Minimal</td>
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<tr>
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**END OF REPORT**

* PROTOCOL REQUIRED TISSUE