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<tr>
<td>Route:</td>
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<tr>
<td>Species/Strain:</td>
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

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<thead>
<tr>
<th>Test Compound:</th>
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<td>CAS Number:</td>
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Experiment Number: 96013-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/23/2014
Time Report Requested: 08:32:35
First Dose M/F: NA / NA
Lab: BAT

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

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**F 344/N Rat Male**

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*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

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**General Body System**

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**Genital System**

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**Hematopoietic System**

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**Integumentary System**

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
M ..Missing tissue
A ..Autolysis precludes evaluation
X ..Lesion present
I ..Insufficient tissue
BLANK ..Not examined microscopically
1-4 ..Lesion qualified as:
   1) Minimal  3) Moderate
   2) Mild       4) Marked
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*TOTALS

None

Musculoskeletal System

None

Nervous System

None

Respiratory System

None

Special Senses System

None

Urinary System

None

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
M ..Missing tissue
A ..Autolysis precludes evaluation
X ..Lesion present
I ..Insufficient tissue
BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:
1) Minimal
2) Mild
3) Moderate
4) Marked
**Experiment Number:** 96013-01  
**Test Type:** 14-DAY  
**Route:** Gavage  
**Species/Strain:** Rat/F 344/N

### P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 08:32:35  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**F 344/N Rat Male**  
**5 UG/KG**

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* **TOTALS**

### Alimentary System

- **Liver**  
  - +  
  - **1**

- **Hepatodiaphragmatic Nodule**  
  - **X**  
  - **1**

### Cardiovascular System

- **NONE**

### Endocrine System

- **NONE**

### General Body System

- **NONE**

### Genital System

- **NONE**

### Hematopoietic System

- **NONE**

### Integumentary System

- **NONE**

### Musculoskeletal System

- **NONE**

### Nervous System

- **NONE**

---

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

A ..Autolysis precludes evaluation

1-4 ..Lesion qualified as:

1) Minimal  
2) Mild  
3) Moderate  
4) Marked

---

Page 4
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F 344/N Rat Male | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5 UG/KG | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
M ..Missing tissue
A ..Autolysis precludes evaluation
X ..Lesion present
I ..Insufficient tissue
BLANK ..Not examined microscopically
1-4 ..Lesion qualified as:
1) Minimal
2) Mild
3) Moderate
4) Marked

Date Report Requested: 10/23/2014
Time Report Requested: 08:32:35
First Dose M/F: NA / NA
Lab: BAT
Experiment Number: 96013-01  
Test Type: 14-DAY  
Route: GAVAGE  
Species/Strain: Rat/F 344/N  

---

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
Test Compound: Melatonin  
CAS Number: 73-31-4  

---

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 08:32:35  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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### DAY ON TEST

**F 344/N Rat Male**  
**50 UG/KG**

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*..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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---

Page 6
Experiment Number: 96013-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Melatonin
CAS Number: 73-31-4

Date Report Requested: 10/23/2014
Time Report Requested: 08:32:35
First Dose M/F: NA / NA
Lab: BAT

DAYS ON TEST

F 344/N Rat Male
50 UG/KG

ANIMAL ID

Respiratory System
NONE

Special Senses System
NONE

Urinary System
NONE

*TOTALS

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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I ..Insufficient tissue
BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:
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F 344/N Rat Male
5000 UG/KG

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*TOTALS

**Alimentary System**

Liver

Hepatodiaphragmatic Nodule

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

Seminal Vesicle

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
M ..Missing tissue
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1-4 ..Lesion qualified as:
X ..Lesion present
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3) Moderate
I ..Insufficient tissue
2) Mild
4) Marked
BLANK ..Not examined microscopically
**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

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

**Experiment Number:** 96013-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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**F 344/N Rat Male**  
5000  UG/KG

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*TOTALS*  

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**Respiratory System**  
NONE

**Special Senses System**  
NONE

**Urinary System**  
NONE

---

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ ..Tissue examined microscopically  
M ..Missing tissue  
1-4 ..Lesion qualified as:  
A ..Autolysis precludes evaluation  
1) Minimal  3) Moderate  
2) Mild  4) Marked  
I ..Insufficient tissue  
BLANK ..Not examined microscopically  
0
Experiment Number: 96013-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**
Test Compound: Melatonin
CAS Number: 73-31-4

Date Report Requested: 10/23/2014
Time Report Requested: 08:32:35
First Dose M/F: NA / NA
Lab: BAT

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**D A Y  O N  T E S T**

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*TOTALS*

**Alimentary System**

Liver          +          +          2
Hepatodiaphragmatic Nodule X          X          2

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

---

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
M ..Missing tissue
1-4 ..Lesion qualified as:
A ..Autolysis precludes evaluation
1) Minimal  3) Moderate
I ..Insufficient tissue
2) Mild  4) Marked
BLANK ..Not examined microscopically
Experiment Number: 96013-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Melatonin
CAS Number: 73-31-4

Date Report Requested: 10/23/2014
Time Report Requested: 08:32:35
First Dose M/F: NA / NA
Lab: BAT

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* Totals

Respiratory System
NONE

Special Senses System
NONE

Urinary System
NONE

*..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+..Tissue examined microscopically
M..Missing tissue
X..Lesion present
A..Autolysis precludes evaluation
I..Insufficient tissue
BLANK..Not examined microscopically

1-4..Lesion qualified as:
1) Minimal
2) Mild
3) Moderate
4) Marked
Experiment Number: 96013-01  
Test Type: 14-DAY  
Route: GAVAGE  
Species/Strain: Rat/F 344/N  
Test Compound: Melatonin  
CAS Number: 73-31-4  
Date Report Requested: 10/23/2014  
Time Report Requested: 08:32:35  
First Dose M/F: NA / NA  
Lab: BAT

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

Adrenal Cortex  +  +  +  +  +  +  +  +  +  +  +  +  +  +  +  +  10
Adrenal Medulla +  +  +  +  +  +  +  +  +  +  +  +  10
Thyroid Gland  +  +  +  +  +  +  +  +  +  +  +  +  +  10

**General Body System**

NONE

**Genital System**

Epididymis  +  +  +  +  +  +  +  +  +  +  +  +  +  +  +  +  10
Preputial Gland +  +  +  +  +  +  +  +  +  +  +  +  +  +  +  +  10
Prostate  +  +  +  +  +  +  +  +  +  +  +  +  +  +  +  +  10
Seminal Vesicle +  +  +  +  +  +  +  +  +  +  +  +  +  +  +  +  10
Testes  +  +  +  +  +  +  +  +  +  +  +  +  +  +  +  +  10

**Hematopoietic System**

Thymus  +  +  +  +  +  +  +  +  +  +  +  +  +  +  +  +  10

**Integumentary System**

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
M ..Missing tissue
A ..Autolysis precludes evaluation
1-4 ..Lesion qualified as:
1) Minimal  3) Moderate
2) Mild    4) Marked
**Experiment Number:** 96013-01  
**Test Type:** 14-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N  

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

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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 08:32:35  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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### F 344/N Rat Male

200,000 UG/KG

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*TOTALS*

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**Musculoskeletal System**

NONE

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

---

***END OF MALE DATA***

---

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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F 344/N Rat Female
0 UG/KG

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*TOTALS

Alimentary System

Liver + + 2
Hepatodiaphragmatic Nodule X X 2
Inflammation, Chronic 1 1 2 1.0

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex + + + + + + + + + + + + + + 10
Adrenal Medulla + + + + + + + + + + + + + + 10
Thyroid Gland + + + + + + + + + + + + + + 10

General Body System

NONE

Genital System

Ovary + + + + + + + + 10
Uterus + + + + + + + + + + + + + + 10
Endometrium, Hyperplasia, Cystic 2 2 1 1 1 5 1.4

Hematopoietic System

Thymus + + + + + + + + + + + + + + 10

Integumentary System

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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

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Lab: BAT

F 344/N Rat Female
0 UG/KG

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*TOTALS

NONE

Musculoskeletal System
NONE

Nervous System
NONE

Respiratory System
NONE

Special Senses System
NONE

Urinary System
NONE

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

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Lab: BAT

F 344/N Rat Female
5 UG/KG

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*TOTALS

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<td>Liver</td>
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<td>Hepatodiaphragmatic Nodule</td>
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Cardiovascular System

NONE

Endocrine System

Adrenal Cortex + 1
Adrenal Medulla + 1

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Alimentary System

Liver + 2
Hepatodiaphragmatic Nodule X 2

Hepatodiaphragmatic Nodule

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

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

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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

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**F 344/N Rat Female**  
5 UG/KG

---

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

---

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:
1) Minimal  3) Moderate
2) Mild  4) Marked
Experiment Number: 96013-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

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<th>Interested System</th>
<th>DAY ON TEST</th>
<th>ANIMAL ID</th>
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<td>Liver</td>
<td>0 0 0 0 0 0 0 0</td>
<td>0 0 0 0 0 0 0 0</td>
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<tr>
<td>Hepatodiaphragmatic Nodule</td>
<td>+ +</td>
<td>X X</td>
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Cardiovascular System
Endocrine System
NONE

General Body System
NONE

Genital System
NONE

Hematopoietic System
NONE

Integumentary System
NONE

Musculoskeletal System
NONE

Nervous System

--

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
M ..Missing tissue
A ..Autolysis precludes evaluation
1-4 ..Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Page 18
Experiment Number: 96013-01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

Date Report Requested: 10/23/2014
Time Report Requested: 08:32:35
First Dose M/F: NA / NA
Lab: BAT

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F 344/N Rat Female

Respiratory System
NONE

Special Senses System
NONE

Urinary System
NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
M ..Missing tissue
A ..Autolysis precludes evaluation
1-4 ..Lesion qualified as:
  1) Minimal
  2) Mild
  3) Moderate
  4) Marked
I ..Insufficient tissue
BLANK ..Not examined microscopically

*TOTALS
DAY ON TEST

F 344/N Rat Female

5000    UG/KG

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

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2) Mild     4) Marked
X ..Lesion present
I ..Insufficient tissue
BLANK ..Not examined microscopically

Page 20
DAY ON TEST

F 344/N Rat Female
5000 UG/KG

ANIMAL ID

Respiratory System
NONE

Special Senses System
NONE

Urinary System
NONE

*TOTALS

-..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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Experiment Number: 96013-01  
Test Type: 14-DAY  
Route: GAVAGE  
Species/Strain: Rat/F 344/N  

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

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

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

*TOTALS

**Alimentary System**

- Liver: + 1
- Hepatodiaphragmatic Nodule: X 1

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

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BLANK ..Not examined microscopically
I ..Insufficient tissue

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3) Moderate
4) Marked
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* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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M ..Missing tissue
A ..Autolysis precludes evaluation
B ..Lesion present
I ..Insufficient tissue
BLANK ..Not examined microscopically
1-4 ..Lesion qualified as:
  1) Minimal
  2) Mild
  3) Moderate
  4) Marked
Experiment Number: 96013-01  
Test Type: 14-DAY  
Route: Gavage  
Species/Strain: Rat/F 344/N  
CAS Number: 73-31-4  

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
Date Report Requested: 10/23/2014  
Time Report Requested: 08:32:36  
First Dose M/F: NA/NA  
Lab: BAT

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**F 344/N Rat Female**  
200,000 UG/KG

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* **TOTALS**

### Alimentary System

- **Liver**: + + + 3
- **Hepatodiaphragmatic Nodule**: X X 3
- **Inflammation, Chronic**: 1 1.0

### Cardiovascular System

- **NONE**

### Endocrine System

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

### General Body System

- **NONE**

### Genital System

- **Ovary**: + + + + + + + + + + + + 10
- **Uterus**: + + + + + + + + + + + + 10
- **Endometrium, Hyperplasia, Cystic**: 1 1 2 2 2 5 1.6
- **Epithelium, Cytoplasmic Alteration**: 2 1 2.0
- **Metaplasia, Squamous**: 1 1.0

### Hematopoietic System

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A ..Autolysis precludes evaluation
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3) Moderate  4) Marked
I ..Insufficient tissue
BLANK ..Not examined microscopically
** END OF REPORT **

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