P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Transgenic model evaluation (Ethynyl estradiol)
CAS Number: 57-63-6

C Number: C97011E
Lock Date: 03/30/1999
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: NONE
**Experiment Number:** 97011-11  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/FVB/N

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**Test Compound:** Transgenic model evaluation (Ethinyl estradiol)  
**CAS Number:** 57-63-6

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**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 01:51:38  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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### DAY ON TEST

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**FVB/N Mouse Male**  
**0 UG/KG**

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#### Alimentary System

- Liver  + + + + 5  
- Inflammation, Granulomatous 1 1 1.0  
- Vacuolization Cytoplasmic 1 1 1.0  
- Stomach, Forestomach  + + + + 5

#### Cardiovascular System

NONE

#### Endocrine System

NONE

#### General Body System

NONE

#### Genital System

NONE

#### Hematopoietic System

NONE

#### Integumentary System

- Skin  + + + + 5

#### Musculoskeletal System

---

* ..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  
1-4 ..Lesion qualified as:  
1) Minimal  3) Moderate  
2) Mild  4) Marked

---

Page 2
**Experiment Number:** 97011-11  
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**Species/Strain:** Mouse/FVB/N

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**Test Compound:** Transgenic model evaluation (Ethynyl estradiol)  
**CAS Number:** 57-63-6

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**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

---

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Page 3
Experiment Number: 97011-11
Test Type: 14-DAY
Route: SKIN APPLICATION
Species/Strain: Mouse/FVB/N

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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### *TOTALS*

#### Alimentary System

- Liver: + + + + + 5
- Vacuolization Cytoplasmic: 1 1 1 1 1 5 1.0
- Stomach, Forestomach: + + + + + 5

#### Cardiovascular System

NONE

#### Endocrine System

NONE

#### General Body System

NONE

#### Genital System

NONE

#### Hematopoietic System

NONE

#### Integumentary System

- Skin: + + + + + 5
- Dermis, SOA, Subcut Tiss, Edema: 1 1 1 1 1 5 1.0
- Dermis, SOA, Subcut Tiss, Infiltration: 1 1 1 1 1 5 1.0
- Cellular, Mononuclear Cl

---

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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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: 97011-11
Test Type: 14-DAY
Route: SKIN APPLICATION
Species/Strain: Mouse/FVB/N

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Date Report Requested: 10/22/2014
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First Dose M/F: NA / NA
Lab: BAT

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FVB/N Mouse Male
30 UG/KG

ANIMAL ID

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*TOTALS

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
X ..Lesion present
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M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
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1) Minimal 2) Mild 3) Moderate 4) Marked
### Experiment Details

- **Experiment Number:** 97011-11
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- **Route:** SKIN APPLICATION
- **Species/Strain:** Mouse/FVB/N
- **Test Compound:** Transgenic model evaluation (Ethinyl estradiol)
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- **First Dose M/F:** NA / NA
- **Lab:** BAT

### Lesions by Individual Animal

#### FVB/N Mouse Male

- **Dose:** 60 UG/KG

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*TOTALS*  

#### Alimentary System

- **Liver:** + + + + + 5  
- **Vacuolization Cytoplasmic:** 1 1 1 1 1 5 1.0  
- **Stomach, Forestomach:** + + + + + 5  

#### Cardiovascular System

NONE

#### Endocrine System

NONE

#### General Body System

NONE

#### Genital System

NONE

#### Hematopoietic System

NONE

#### Integumentary System

- **Skin:** + + + + + 5  
- **Dermis, SOA, Subcut Tiss, Edema:** 2 2 2 1 1 5 1.6  
- **Dermis, SOA, Subcut Tiss, Infiltration:** 1 1 1 1 1 5 1.0  
- **Cellular, Mononuclear Cl:**  

---

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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X ..Lesion present  
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Lab: BAT

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FVB/N Mouse Male
60 UG/KG

ANIMAL ID
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1 1 1 1 1
1 2 3 4 5

*TOTALS

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

**FVB/N Mouse Male**

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*TOTALS*

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**Alimentary System**

- **Liver**
  - + + + + + 5
    - Inflammation, Granulomatous 1 1 1.0
    - Necrosis, Focal 1 1 1.0
    - Vacuolization Cytoplasmic 2 1 1 2 1 5 1.4
- **Stomach, Forestomach**
  - + + + + + 5

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

- **Skin**
  - + + + + + 5
    - Dermis, SOA, Subcut Tiss, Edema 1 2 2 1 1 5 1.4

---

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**Test Compound:** Transgenic model evaluation (Ethynyl estradiol)  
**CAS Number:** 57-63-6

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**FVB/N Mouse Male**  
120 UG/KG

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**TOTALS**

| Dermis, SOA, Subcut Tiss, Infiltration | 1 | 1 | 1 | 1 | 1 | 5 | 1.0 |

**Cellular, Mononuclear Cl**

**Musculoskeletal System**

NONE

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

---

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1-4 ..Lesion qualified as:  
1) Minimal  3) Moderate  
2) Mild  4) Marked  
BLANK ..Not examined microscopically
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

### Alimentary System

- **Liver**
  - Necrosis, Focal: + + + + + 5
  - Vacuolization Cytoplasmic: 1 1 1.0
- **Stomach, Forestomach**
  - + + + + + 5

### Cardiovascular System

**NONE**

### Endocrine System

**NONE**

### General Body System

**NONE**

### Genital System

**NONE**

### Hematopoietic System

**NONE**

### Integumentary System

- **Skin**
  - Dermis, SOA, Subcut Tiss, Edema: + + + + + 5

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* ..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:
X ..Lesion present
A ..Autolysis precludes evaluation
1) Minimal 3) Moderate
I ..Insufficient tissue
BLANK ..Not examined microscopically
2) Mild 4) Marked
### FVB/N Mouse Male

### 180 UG/KG

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**TOTALS**

- Dermis, SOA, Subcut Tiss, Infiltration: 1 1 1 1 5 1.0

**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

1-4..Lesion qualified as:

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

A..Autolysis precludes evaluation
**Experiment Number:** 97011-11  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/FVB/N  

**Test Compound:** Transgenic model evaluation (Ethinyl estradiol)  
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**First Dose M/F:** NA / NA  
**Lab:** BAT  

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

**FVB/N Mouse Male**  
**360 UG/KG**  

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*..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:
1) Minimal 3) Moderate
2) Mild 4) Marked
Experiment Number: 97011-11
Test Type: 14-DAY
Route: SKIN APPLICATION
Species/Strain: Mouse/FVB/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Transgenic model evaluation (Ethinyl estradiol)
CAS Number: 57-63-6

Date Report Requested: 10/22/2014
Time Report Requested: 01:51:38
First Dose M/F: NA / NA
Lab: BAT

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FVB/N Mouse Male
360 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***
**Experiment Number:** 97011-11  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/FVB/N  

**Test Compound:** Transgenic model evaluation (Ethynyl estradiol)  
**CAS Number:** 57-63-6

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 01:51:38  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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

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### Alimentary System

- Liver: + + + + + 5
- Inflammation, Granulomatous: 1 1 2 1.0
- Vacuolization Cytoplasmic: 1 1 2 1.0

### Cardiovascular System

NONE

### Endocrine System

NONE

### General Body System

NONE

### Genital System

NONE

### Hematopoietic System

NONE

### Integumentary System

- Skin: + + + + + 5
  - Dermis, SOA, Inflammation, Chronic, Focal: 1 1 1.0
  - Epidermis, SOA, Hyperplasia: 1 1 1.0

---

* ..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:  
X ..Lesion present  
A ..Autolysis precludes evaluation  
1) Minimal  3) Moderate  
I ..Insufficient tissue  
BLANK ..Not examined microscopically  
2) Mild  4) Marked
Experiment Number: 97011-11
Test Type: 14-DAY
Route: SKIN APPLICATION
Species/Strain: Mouse/FVB/N

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

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**FVB/N Mouse Female**

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*...TOTALS*

**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

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

**Test Compound:** Transgenic model evaluation (Ethyl estradiol)  
**CAS Number:** 57-63-6

**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/FVB/N

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 01:51:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

#### FVB/N Mouse Female 30 UG/KG

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* ..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:  
X ..Lesion present  
A ..Autolysis precludes evaluation  
1) Minimal 3) Moderate  
I ..Insufficient tissue  
BLANK ..Not examined microscopically  
2) Mild 4) Marked
**Experiment Number:** 97011-11  
**Test Type:** 14-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** Mouse/FVB/N  

**Test Compound:** Transgenic model evaluation (Ethinyl estradiol)  
**CAS Number:** 57-63-6  

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 01:51:39  
**First Dose M/F:** NA / NA  
**Lab:** BAT

### FVB/N Mouse Female  
**30 UG/KG**

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X ..Lesion present  
A ..Autolysis precludes evaluation  
I ..Insufficient tissue  
BLANK ..Not examined microscopically  
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3) Moderate  4) Marked  
2) Mild  4) Marked
Experiment Number: 97011-11  
Test Type: 14-DAY  
Route: SKIN APPLICATION  
Species/Strain: Mouse/FVB/N  
Test Compound: Transgenic model evaluation (Ethynyl estradiol)  
CAS Number: 57-63-6  
Date Report Requested: 10/22/2014  
Time Report Requested: 01:51:39  
First Dose M/F: NA / NA  
Lab: BAT

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

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<td><strong>Integumentary System</strong></td>
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<td>Skin</td>
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<td>Dermis, SOA, Subcut Tiss, Edema</td>
<td>2 2 2 2 2</td>
<td>5 2.0</td>
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* ..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:  
1) Minimal 3) Moderate  
2) Mild 4) Marked  
X ..Lesion present  
A ..Autolysis precludes evaluation  
I ..Insufficient tissue  
BLANK ..Not examined microscopically
**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

**Test Compound:** Transgenic model evaluation (Ethinyl estradiol)

**CAS Number:** 57-63-6

---

**FVB/N Mouse Female**

**60 UG/KG**

**ANIMAL ID**

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| 4 | 4 | 4 | 4 | 4 |
| 1 | 2 | 3 | 4 | 5 |

*TOTALS*

**Dermis, SOA, Subcut Tiss, Infiltration**

| 1 | 1 | 1 | 1 | 1 | 5 | 1.0 |

**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
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
1-4 ..Lesion qualified as:
1) Minimal
2) Mild
3) Moderate
4) Marked
Experiment Number: 97011-11

Test Type: 14-DAY

Route: SKIN APPLICATION

Species/Strain: Mouse/FVB/N

Test Compound: Transgenic model evaluation (Ethynyl estradiol)

CAS Number: 57-63-6

Date Report Requested: 10/22/2014

Time Report Requested: 01:51:39

First Dose M/F: NA / NA

Lab: BAT

---

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

**FVB/N Mouse Female**

**120 UG/KG**

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**ANIMAL ID**

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*TOTALS*

**Alimentary System**

- Liver: + + + + + 5
  - Necrosis, Focal: 1 1 1.0
  - Vacuolization Cytoplasmic: 1 1 1 1 5 1.0
- Stomach, Forestomach: + + + + + 5

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

- Skin: + + + + + 5
  - Dermis, SOA, Subcut Tiss, Edema: 2 2 3 2 2 5 2.2

---

* ..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:
X ..Lesion present
A ..Autolysis precludes evaluation
1) Minimal 3) Moderate
I ..Insufficient tissue
BLANK ..Not examined microscopically
2) Mild 4) Marked

Page 20
P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Transgenic model evaluation (Ethynyl estradiol)

CAS Number: 57-63-6

Experiment Number: 97011-11
Test Type: 14-DAY
Route: SKIN APPLICATION
Species/Strain: Mouse/FVB/N

Date Report Requested: 10/22/2014
Time Report Requested: 01:51:39
First Dose M/F: NA / NA
Lab: BAT

FVB/N Mouse Female
120 UG/KG

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|           | 4 | 4 | 4 | 4 | 5 |
|           | 6 | 7 | 8 | 9 | 0 |

**TOTALS**

Dermis, SOA, Subcut Tiss, Infiltration
Cellular, Mononuclear CI

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
X ..Lesion present
A ..Autolysis precludes evaluation
I ..Insufficient tissue
BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:
1) Minimal  3) Moderate
2) Mild     4) Marked

Page 21
Experiment Number: 97011-11  
Test Type: 14-DAY  
Route: SKIN APPLICATION  
Species/Strain: Mouse/FVB/N

Test Compound: Transgenic model evaluation (Ethynyl estradiol)  
CAS Number: 57-63-6

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**FVB/N Mouse Female**  
**180 UG/KG**

| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 1 | 2 | 3 | 4 | 5 |
| 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 1 | 2 | 3 | 4 | 5 |

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**Alimentary System**

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<tr>
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<tr>
<td>Inflammation, Granulomatous</td>
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<td>1</td>
<td>1</td>
<td>3</td>
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<td>Necrosis, Focal</td>
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<td>Vacuolization Cytoplasmic</td>
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<tr>
<td>Stomach, Forestomach</td>
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**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

<table>
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<tr>
<th>Skin</th>
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* ..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:
1) Minimal 3) Moderate
2) Mild 4) Marked
X ..Lesion present
A ..Autolysis precludes evaluation
# P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

**Test Compound:** Transgenic model evaluation (Ethinyl estradiol)

**CAS Number:** 57-63-6

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**FVB/N Mouse Female**

| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 1 | 2 | 3 | 4 | 5 |

*TOTALS*

<table>
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<tr>
<th>Dermis, SOA, Subcut Tiss, Infiltration</th>
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**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

1-4 ..Lesion qualified as:

1) Minimal

2) Mild

3) Moderate

4) Marked

5) Severe

180 UG/KG

Page 23
### Experiment Number: 97011-11
Test Type: 14-DAY
Route: SKIN APPLICATION
Species/Strain: Mouse/FVB/N

---

**Test Compound:** Transgenic model evaluation (Ethinyl estradiol)

**CAS Number:** 57-63-6

---

**Date Report Requested:** 10/22/2014
**Time Report Requested:** 01:51:39
**First Dose M/F:** NA / NA
**Lab:** BAT

---

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

**DAY ON TEST**

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---

**FVB/N Mouse Female**

---

#### Alimentary System

- **Liver:** + + + + + 5
- **Inflammation, Granulomatous:** 1 1 1.0
- **Vacuolization Cytoplasmic:** 2 2 1 2 1 5 1.6
- **Stomach, Forestomach:** + + + + + 5

#### Cardiovascular System

NONE

#### Endocrine System

NONE

#### General Body System

NONE

#### Genital System

NONE

#### Hematopoietic System

NONE

#### Integumentary System

- **Skin:** + + + + + 5
  - **Dermis, SOA, Subcut Tiss, Edema:** 3 3 3 3 3 5 3.0

---

* ..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
BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:
1) Minimal
2) Mild
3) Moderate
4) Marked
** END OF REPORT **