Experiment Number: 99007-02
Test Type: 14-DAY
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/16/2014
Time Report Requested: 02:31:34
First Dose M/F: NA / NA
Lab: MBA

C Number: C99007
Lock Date: 10/11/2001
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: NONE
P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/16/2014

Time Report Requested: 02:31:34

First Dose M/F: NA / NA

Lab: MBA

Experiment Number: 99007-02
Test Type: 14-DAY
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

DAYS ON TEST

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VEHICLE CONTROL

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* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

**Test Compound:** Goldenseal root powder  
**CAS Number:** GOLDENSEALRT  
**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 02:31:34  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**Experiment Number:** 99007-02  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1

#### Respiratory System
- **NONE**

#### Special Senses System
- **NONE**

#### Urinary System
- **NONE**

#### SYSTEMIC LESIONS

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**TOTALS**

- + ..Tissue examined microscopically
- **+** ..Tissue examined microscopically
- **+** ..Tissue examined microscopically
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- **+** ..Tissue examined microscopically

**Multiple Organ**
- + ..Tissue examined microscopically
- **+** ..Tissue examined microscopically
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**Systemic Lesions**
- **+** ..Tissue examined microscopically
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- **+** ..Tissue examined microscopically
- **+** ..Tissue examined microscopically

**M** ..Missing tissue  
**A** ..Autolysis precludes evaluation  
**BLANK** ..Not examined microscopically  
**I** ..Insufficient tissue
D1Y ON TEST

B6C3F1 Mouse Male
1560 PPM

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

*..Total animals with tissue examined microscopically; Total animals with tumor
M..Missing tissue
+..Tissue examined microscopically
A..Autolysis precludes evaluation
X..Lesion present
I..Insufficient tissue
BLANK..Not examined microscopically
B6C3F1 Mouse Male
1560 PPM

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*TOTALS

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
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BLANK ..Not examined microscopically
**Experiment Number:** 99007-02  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1  

**Test Compound:** Goldenseal root powder  
**CAS Number:** GOLDENSEALRT  

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

**B6C3F1 Mouse Male**

3121 PPM

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* ..Total animals with tissue examined microscopically; Total animals with tumor
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X ..Lesion present
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M ..Missing tissue
A ..Autopsy precludes evaluation
BLANK ..Not examined microscopically
**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

- **Test Compound:** Goldenseal root powder
- **CAS Number:** GOLDENSEALRT

---

### Experiment Details
- **Experiment Number:** 99007-02
- **Test Type:** 14-DAY
- **Route:** DOSED FEED
- **Species/Strain:** Mouse/B6C3F1
- **Date Report Requested:** 10/16/2014
- **Time Report Requested:** 02:31:34
- **First Dose M/F:** NA / NA
- **Lab:** MBA

### Day on Test

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### Organ System Details
- **Alimentary System:** NONE
- **Cardiovascular System:** NONE
- **Endocrine System:** NONE
- **General Body System:** NONE
- **Genital System:** NONE
- **Hematopoietic System:**
  - **Spleen:** + 1
- **Integumentary System:** NONE
- **Musculoskeletal System:** NONE
- **Nervous System:** NONE

---

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  + ..Tissue examined microscopically
  X ..Lesion present
  I ..Insufficient tissue
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**Experiment Number:** 99007-02  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1

**Test Compound:** Goldenseal root powder  
**CAS Number:** GOLDENSEALRT  
**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 02:31:34  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ + 1

* ..Total animals with tissue examined microscopically; Total animals with tumor  
M ..Missing tissue  
+ ..Tissue examined microscopically  
A ..Autolysis precludes evaluation  
X ..Lesion present  
BLANK ..Not examined microscopically  
I ..Insufficient tissue
# Experiment Number: 99007-02
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1

---

## P04: NEOPLASMS BY INDIVIDUAL ANIMAL

**Test Compound:** Goldenseal root powder  
**CAS Number:** GOLDENSEALRT

---

## Date Report Requested:
10/16/2014  
**Time Report Requested:** 02:31:34  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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## DAY ON TEST

### B6C3F1 Mouse Male

**12500 PPM**

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* ..Total animals with tissue examined microscopically; Total animals with tumor  
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X ..Lesion present  
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M ..Missing tissue  
A ..Autolysis precludes evaluation  
BLANK ..Not examined microscopically

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Page 10
### Experiment Number: 99007-02
- **Test Type:** 14-DAY
- **Route:** DOSED FEED
- **Species/Strain:** Mouse/B6C3F1

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**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**
- **Test Compound:** Goldenseal root powder
- **CAS Number:** GOLDENSEALRT

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**Date Report Requested:** 10/16/2014
- **Time Report Requested:** 02:31:34
- **First Dose M/F:** NA / NA
- **Lab:** MBA

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**DAY ON TEST**

**B6C3F1 Mouse Male**

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

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Page 11
Experiment Number: 99007-02
Test Type: 14-DAY
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/16/2014
Time Report Requested: 02:31:34
First Dose M/F: NA / NA
Lab: MBA

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*TOTALS*

| Alimentary System | | | | | |
|-------------------|---|---|---|---|
| Liver             | + | + | + | + | 5 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
M ..Missing tissue
A ..Autolysis precludes evaluation
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Experiment Number: 99007-02
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B6C3F1 Mouse Male
25000 PPM

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*TOTALS

Respiratory System
NONE

Special Senses System
NONE

Urinary System
NONE

SYSTEMIC LESIONS
Multiple Organ + + + + + 5

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
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BLANK ..Not examined microscopically
Experiment Number: 99007-02
Test Type: 14-DAY
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

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B6C3F1 Mouse Male
50000   PPM

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**TOTALS**

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

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**TOTALS**

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ

+ + + + + 5

***END OF MALE DATA***

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
**Experiment Number:** 99007-02  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1

**Test Compound:** Goldenseal root powder  
**CAS Number:** GOLDENSEALRT

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 02:31:34  
**First Dose M/F:** NA / NA  
**Lab:** MBA

### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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*TOTALS*: 6 7 8 9 0

### Alimentary System
- **Liver**: + + + + + 5

### Cardiovascular System
- **NONE**

### Endocrine System
- **NONE**

### General Body System
- **NONE**

### Genital System
- **NONE**

### Hematopoietic System
- **NONE**

### Integumentary System
- **NONE**

### Musculoskeletal System
- **NONE**

### Nervous System
- **NONE**

---

* ..Total animals with tissue examined microscopically; Total animals with tumor  
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X ..Lesion present  
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BLANK ..Not examined microscopically
Experiment Number: 99007-02
Test Type: 14-DAY
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/16/2014
Time Report Requested: 02:31:34
First Dose M/F: NA / NA
Lab: MBA

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B6C3F1 Mouse Female

VEHICLE CONTROL

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*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ  +  +  +  +  +  5

*..Total animals with tissue examined microscopically; Total animals with tumor
M..Missing tissue
+..Tissue examined microscopically
A..Autolysis precludes evaluation
X..Lesion present
I..Insufficient tissue
BLANK..Not examined microscopically
D A Y  O N  T E S T

B6C3F1 Mouse Female
1560 PPM

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

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

Page 18
B6C3F1 Mouse Female
1560 PPM

ANIMAL ID

Respiratory System
NONE

Special Senses System
NONE

Urinary System
NONE

SYSTEMIC LESIONS

Multiple Organ 0

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
B6C3F1 Mouse Female
3121 PPM

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

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
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**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

**Test Compound:** Goldenseal root powder  
**CAS Number:** GOLDENSEALRT

---

**Experiment Number:** 99007-02  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1

---

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 02:31:34  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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**Day On Test**

**B6C3F1 Mouse Female**  
**3121 PPM**

**Animal ID**

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**Systemic Lesions**

| Multiple Organ               | 0     |

---

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
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Page 21
Experiment Number: 99007-02
Test Type: 14-DAY
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/16/2014
Time Report Requested: 02:31:34
First Dose M/F: NA / NA
Lab: MBA

DAYS ON TEST

B6C3F1 Mouse Female
6250 PPM

**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

* ..Total animals with tissue examined microscopically; Total animals with tumor
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X ..Lesion present
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BLANK ..Not examined microscopically
DAY ON TEST

B6C3F1 Mouse Female
6250 PPM

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ 0

* ..Total animals with tissue examined microscopically; Total animals with tumor
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**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

**Test Compound:** Goldenseal root powder  
**CAS Number:** GOLDENSEALRT

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**Experiment Number:** 99007-02  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1

---

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 02:31:34  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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**B6C3F1 Mouse Female**  
12500 PPM  

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**ANIMAL ID**

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

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Page 24
**Experiment Number:** 99007-02  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1

**Test Compound:** Goldenseal root powder  
**CAS Number:** GOLDENSEALRT

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 02:31:34  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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**DAY ON TEST**

**B6C3F1 Mouse Female**  
**12500 PPM**

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**SYSTEMIC LESIONS**

- Multiple Organ: 0

---

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
**Experiment Number:** 99007-02  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1

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### P04: NEOPLASMS BY INDIVIDUAL ANIMAL

**Test Compound:** Goldenseal root powder  
**CAS Number:** GOLDENSEALRT

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**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 02:31:34  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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**B6C3F1 Mouse Female**  
**25000 PPM**

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*TOTALS*

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**Alimentary System**

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**Cardiovascular System**

NONE

---

**Endocrine System**

NONE

---

**General Body System**

NONE

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**Genital System**

NONE

---

**Hematopoietic System**

NONE

---

**Integumentary System**

NONE

---

**Musculoskeletal System**

NONE

---

**Nervous System**

NONE

---

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

---

Page 26
Experiment Number: 99007-02
Test Type: 14-DAY
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/16/2014
Time Report Requested: 02:31:34
First Dose M/F: NA / NA
Lab: MBA

**Respiratory System**
- NONE

**Special Senses System**
- NONE

**Urinary System**
- NONE

**SYSTEMIC LESIONS**

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**B6C3F1 Mouse Female**

**25000 PPM**

**ANIMAL ID**

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**TOTALS**

- Respiratory System: NONE
- Special Senses System: NONE
- Urinary System: NONE
- Multiple Organ: 5

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*..Total animals with tissue examined microscopically; Total animals with tumor
+..Tissue examined microscopically
X..Lesion present
I..Insufficient tissue
M..Missing tissue
A..Autolysis precludes evaluation
BLANK..Not examined microscopically
Experiment Number: 99007-02
Test Type: 14-DAY
Route: Dosed Feed
Species/Strain: Mouse/B6C3F1

P04: Neoplasms by Individual Animal
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/16/2014
Time Report Requested: 02:31:34
First Dose M/F: NA / NA
Lab: MBA

B6C3F1 Mouse Female
50000 PPM

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I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
Experiment Number: 99007-02
Test Type: 14-DAY
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

Date Report Requested: 10/16/2014
Time Report Requested: 02:31:34
First Dose M/F: NA / NA
Lab: MBA

** P04: NEOPLASMS BY INDIVIDUAL ANIMAL **

Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

** DAY ON TEST **

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** *TOTALS**

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ  

+ + + + +  

5

** END OF REPORT **