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Test Type: 14-DAY
Route: DOSED FEED
Species/Strain: Mouse/B6C3F1

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

Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

**Date Report Requested:** 10/16/2014
**Time Report Requested:** 02:31:38
**First Dose M/F:** NA / NA
**Lab:** MBA

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**B6C3F1 Mouse Male**

**VEHICLE CONTROL**

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**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
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

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** Goldenseal root powder  
**CAS Number:** GOLDENSEALRT

Date Report Requested: 10/16/2014  
Time Report Requested: 02:31:38  
First Dose M/F: NA / NA  
Lab: MBA

**B6C3F1 Mouse Male**  
**VEHICLE CONTROL**

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**ANIMAL ID**  
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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  
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**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
**Test Compound:** Goldenseal root powder  
**CAS Number:** GOLDENSEALRT

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

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**DAY ON TEST**

**B6C3F1 Mouse Male**  
**1560 PPM**

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<th>General Body System</th>
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* ..Total animals with tissue examined microscopically; Total animals with tumor  
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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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* ..Total animals with tissue examined microscopically; Total animals with tumor
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### DAY ON TEST

**B6C3F1 Mouse Male**

**3121 PPM**

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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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**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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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

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

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

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 02:31:38

**First Dose M/F:** NA / NA  
**Lab:** MBA

#### Biological Results

**B6C3F1 Mouse Male**  
6250 PPM

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*TOTALS*

**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

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

Page 8
**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

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**B6C3F1 Mouse Male**

**6250 PPM**

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*TOTALS*

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

**SYSTEMIC LESIONS**

Multiple Organ

|   |   |   |   |   |   |
|---|---|---|---|---|
|   | + |   |   |   |

1

---

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue
DAYS ON TEST

B6C3F1 Mouse Male
12500 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
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Nervous System
NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
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**Respiratory System**
- NONE

**Special Senses System**
- NONE

**Urinary System**
- NONE

**SYSTEMIC LESIONS**
- Multiple Organ: 0

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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

**Date Report Requested:** 10/16/2014  
** Time Report Requested:** 02:31:38  
** First Dose M/F:** NA / NA  
** Lab:** MBA

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

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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
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First Dose M/F: NA / NA
Lab: MBA

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

**DAY ON TEST**

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**B6C3F1 Mouse Male**

**25000 PPM**

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

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

**DAY ON TEST**

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**B6C3F1 Mouse Male**

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**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

M..Missing tissue

+..Tissue examined microscopically

A..Autolysis precludes evaluation

X..Lesion present

BLANK..Not examined microscopically

I..Insufficient tissue
P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

---

**Exp. No.:** 99007-02
**Test Type:** 14-DAY
**Route:** DOSED FEED
**Species/Strain:** Mouse/B6C3F1

**Date Report Requested:** 10/16/2014
**Time Report Requested:** 02:31:38

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

**Species/Strain:** Mouse/B6C3F1

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**DOSING LEVELS**

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**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: 02:31:38  
First Dose M/F: NA / NA  
Lab: MBA

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

**B6C3F1 Mouse Female**  
**VEHICLE CONTROL**

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**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  
X ..Lesion present  
I ..Insufficient tissue  
M ..Missing tissue  
A ..Autolysis precludes evaluation  
BLANK ..Not examined microscopically
**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

**Test Compound:** Goldenseal root powder  
**CAS Number:** GOLDENSEALRT  
**Species/Strain:** Mouse/B6C3F1  
**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 02:31:38  
**First Dose M/F:** NA / NA  
**Lab:** MBA  

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*TOTALS

**Respiratory System**  
NONE

**Special Senses System**  
NONE

**Urinary System**  
NONE

**SYSTEMIC LESIONS**

- **Multiple Organ**
  - Total animals with tissue examined microscopically: 5

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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: Goldenseal root powder  
CAS Number: GOLDENSEALRT  

Date Report Requested: 10/16/2014  
Time Report Requested: 02:31:38  
First Dose M/F: NA / NA  
Lab: MBA  

DHy ON TEST

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  
+ ..Tissue examined microscopically  
X ..Lesion present  
I ..Insufficient tissue  
M ..Missing tissue  
A ..Autolysis precludes evaluation  
BLANK ..Not examined microscopically
**DAYS ON TEST**

**B6C3F1 Mouse Female**

1560 PPM

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

---

**Day on Test**

**B6C3F1 Mouse Female**

**6250 PPM**

#### ALIMENTARY SYSTEM
- NONE

#### CARDIOVASCULAR SYSTEM
- NONE

#### ENDOCRINE SYSTEM
- NONE

#### GENERAL BODY SYSTEM
- NONE

#### GENITAL SYSTEM
- NONE

#### HEMATOPOIETIC SYSTEM
- NONE

#### INTEGUMENTARY SYSTEM
- NONE

#### MUSCULOSKELETAL SYSTEM
- NONE

#### NERVOUS SYSTEM
- NONE

---

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

**B6C3F1 Mouse Female**

**6250 PPM**

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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 Female**  
**12500 PPM**

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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 Female
12500   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
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
### P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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

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

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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  
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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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/16/2014
Time Report Requested: 02:31:38
First Dose M/F: NA / NA
Lab: MBA

Day On Test

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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
M ..Missing tissue
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Experiment Number: 99007-02
Test Type: 14-DAY
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**B6C3F1 Mouse Female**

50000 PPM

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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

---

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

**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:** 02:31:39  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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**B6C3F1 Mouse Female**  
**50000  PPM**

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**Respiratory System**
- NONE

**Special Senses System**
- NONE

**Urinary System**
- NONE

**SYSTEMIC LESIONS**

| Multiple Organ | + | + | + | + | + | **5** |

**END OF REPORT**