

**Experiment Number:** 99007-04  
**Test Type:** 90-DAY  
**Species/Strain:** Mouse/B6C3F1

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

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

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 04:54:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>C Number:</b>	C99007B
<b>Lock Date:</b>	09/23/2002
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

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First Dose M/F: NA / NA

Lab: SRI

<b>B6C3F1 Mouse Male</b> <b>0 PPM</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
		4	4	4	4	4	4	4	4	4	4
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	1	0
		1	2	3	4	5	6	7	8	9	0
		*TOTALS									

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Gallbladder	+	+	+	+	+	+	+	+	+	M	9
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

**Cardiovascular System**

Heart	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	----

**Endocrine System**

Adrenal Cortex	+	+	+	I	+	+	+	+	+	+	9
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10

\* ..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: 99007-04

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Date Report Requested: 10/19/2014

Test Type: 90-DAY

Test Compound: Goldenseal root powder

Time Report Requested: 04:54:14

Species/Strain: Mouse/B6C3F1

CAS Number: GOLDENSEALRT

First Dose M/F: NA / NA

Lab: SRI

B6C3F1 Mouse Male 0 PPM	DAY ON TEST										*TOTALS
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	1	2	3	4	5	6	7	8	9	0	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
<b>General Body System</b>											
NONE											
<b>Genital System</b>											
Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10
<b>Hematopoietic System</b>											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
<b>Integumentary System</b>											
Mammary Gland	M	M	M	M	M	M	M	M	M	M	0
Skin	+	+	+	+	+	+	+	+	+	+	10
<b>Musculoskeletal System</b>											
Bone	+	+	+	+	+	+	+	+	+	+	10

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Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/19/2014

Time Report Requested: 04:54:14

First Dose M/F: NA / NA

Lab: SRI

B6C3F1 Mouse Male  
0 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

\*TOTALS

**Nervous System**

Brain + + + + + + + + + + 10

**Respiratory System**

Lung + + + + + + + + + + 10

Nose + + + + + + + + + + 10

Trachea + + + + + + + + + + 10

**Special Senses System**

Eye + + + + + + | + + + 9

Harderian Gland + + + + + + + + + + 10

**Urinary System**

Kidney + + + + + + + + + + 10

Urinary Bladder + + + + + + + + + + 10

**SYSTEMIC LESIONS**

Multiple Organ + + + + + + + + + + 10

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

+ ..Tissue examined microscopically

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Date Report Requested: 10/19/2014

Time Report Requested: 04:54:14

First Dose M/F: NA / NA

Lab: SRI

B6C3F1 Mouse Male  
3125 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach								+			1
Stomach, Glandular								+			1

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

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

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Time Report Requested: 04:54:14

First Dose M/F: NA / NA

Lab: SRI

B6C3F1 Mouse Male  
3125 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10
--------	---	---	---	---	---	---	---	---	---	---	----

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	---	----

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Time Report Requested: 04:54:14

First Dose M/F: NA / NA

Lab: SRI

B6C3F1 Mouse Male  
6250 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	3
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Liver + + + + + + + + + + 10

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Thymus + 1

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

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

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Time Report Requested: 04:54:14

First Dose M/F: NA / NA

Lab: SRI

B6C3F1 Mouse Male  
6250 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	4	4	4	4	4
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	3
	1	2	3	4	5	6	7	8	9	0

\*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney

+ + + + + + + + + + 10

SYSTEMIC LESIONS

Multiple Organ

+ + + + + + + + + + 10

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

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Species/Strain: Mouse/B6C3F1

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Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/19/2014

Time Report Requested: 04:54:14

First Dose M/F: NA / NA

Lab: SRI

B6C3F1 Mouse Male  
12500 PPM

|             |         |   |   |   |   |   |   |   |   |   |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 9       | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|             | 4       | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 3       | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
|             | 1       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|             | *TOTALS |   |   |   |   |   |   |   |   |   |

Alimentary System

Liver + + + + + + + + + + 10

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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Experiment Number: 99007-04  
 Test Type: 90-DAY  
 Species/Strain: Mouse/B6C3F1

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 Test Compound: Goldenseal root powder  
 CAS Number: GOLDENSEALRT

Date Report Requested: 10/19/2014  
 Time Report Requested: 04:54:14  
 First Dose M/F: NA / NA  
 Lab: SRI

**B6C3F1 Mouse Male**  
**12500 PPM**

| DAY ON TEST | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 9       | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|             | 4       | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 3       | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
|             | 1       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|             | *TOTALS |   |   |   |   |   |   |   |   |   |

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

Kidney

+ + + + + + + + + + 10

**SYSTEMIC LESIONS**

Multiple Organ

+ + + + + + + + + + 10

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
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 X ..Lesion present  
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Experiment Number: 99007-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/19/2014

Time Report Requested: 04:54:14

First Dose M/F: NA / NA

Lab: SRI

B6C3F1 Mouse Male  
25000 PPM

|             |         |   |   |   |   |   |   |   |   |   |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 9       | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|             | 4       | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 4       | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
|             | 1       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|             | *TOTALS |   |   |   |   |   |   |   |   |   |

Alimentary System

Liver + + + + + + + + + + 10

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Thymus + 1

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

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

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Date Report Requested: 10/19/2014  
 Time Report Requested: 04:54:14  
 First Dose M/F: NA / NA  
 Lab: SRI

**B6C3F1 Mouse Male**  
**25000 PPM**

| DAY ON TEST | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|---|
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 9       | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|             | 4       | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 4       | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 0 |
|             | 1       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |   |
|             | *TOTALS |   |   |   |   |   |   |   |   |   |   |

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

Kidney

+ + + + + + + + + + 10

**SYSTEMIC LESIONS**

Multiple Organ

+ + + + + + + + + + 10

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
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Time Report Requested: 04:54:14

Species/Strain: Mouse/B6C3F1

CAS Number: GOLDENSEALRT

First Dose M/F: NA / NA

Lab: SRI

|  |             |   |   |   |   |   |   |   |   |   |   |         |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---------|
| <b>B6C3F1 Mouse Male</b><br><b>50000 PPM</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|  |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |         |
|  |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |         |
|  | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |         |
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |         |
|  | 5           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |   |         |
|  | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |   |         |

**Alimentary System**

|                           |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | 10 |
| Gallbladder               | + | + | + | + | + | + | + | + | M | + | 9  |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | 10 |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | 10 |

**Cardiovascular System**

|       |   |   |   |   |   |   |   |   |   |   |    |
|-------|---|---|---|---|---|---|---|---|---|---|----|
| Heart | + | + | + | + | + | + | + | + | + | + | 10 |
|-------|---|---|---|---|---|---|---|---|---|---|----|

**Endocrine System**

|                   |   |   |   |   |   |   |   |   |   |   |    |
|-------------------|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex    | + | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla   | + | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland | + | + | + | M | + | + | + | + | + | + | 9  |
| Pituitary Gland   | + | + | + | + | + | + | + | + | + | + | 10 |

\* ..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: 99007-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/19/2014

Time Report Requested: 04:54:14

First Dose M/F: NA / NA

Lab: SRI

B6C3F1 Mouse Male  
50000 PPM

|                               | DAY ON TEST |   |   |   |   |   |   |   |   |   | *TOTALS |
|-------------------------------|-------------|---|---|---|---|---|---|---|---|---|---------|
|                               | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
| ANIMAL ID                     | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                               | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                               | 0           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |         |
|                               | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |         |
| Thyroid Gland                 | +           | + | + | + | + | + | + | + | + | + | 10      |
| <b>General Body System</b>    |             |   |   |   |   |   |   |   |   |   |         |
| NONE                          |             |   |   |   |   |   |   |   |   |   |         |
| <b>Genital System</b>         |             |   |   |   |   |   |   |   |   |   |         |
| Epididymis                    | +           | + | + | + | + | + | + | + | + | + | 10      |
| Preputial Gland               | +           | + | + | + | + | + | + | + | + | + | 10      |
| Prostate                      | +           | + | + | + | + | + | + | + | + | + | 10      |
| Seminal Vesicle               | +           | + | + | + | + | + | + | + | + | + | 10      |
| Testes                        | +           | + | + | + | + | + | + | + | + | + | 10      |
| <b>Hematopoietic System</b>   |             |   |   |   |   |   |   |   |   |   |         |
| Bone Marrow                   | +           | + | + | + | + | + | + | + | + | + | 10      |
| Lymph Node, Mandibular        | +           | + | + | + | + | + | + | + | + | + | 10      |
| Lymph Node, Mesenteric        | +           | + | + | + | + | + | + | + | + | + | 10      |
| Spleen                        | +           | + | + | + | + | + | + | + | + | + | 10      |
| Thymus                        | +           | + | + | + | + | + | + | + | + | + | 10      |
| <b>Integumentary System</b>   |             |   |   |   |   |   |   |   |   |   |         |
| Mammary Gland                 | M           | M | M | M | M | M | M | M | M | M | 0       |
| Skin                          | +           | + | + | + | + | + | + | + | + | + | 10      |
| <b>Musculoskeletal System</b> |             |   |   |   |   |   |   |   |   |   |         |
| Bone                          | +           | + | + | + | + | + | + | + | + | + | 10      |

\* ..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: 99007-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/19/2014

Time Report Requested: 04:54:14

First Dose M/F: NA / NA

Lab: SRI

B6C3F1 Mouse Male  
50000 PPM

| DAY ON TEST | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 9       | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|             | 4       | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 5       | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
|             | 1       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|             | *TOTALS |   |   |   |   |   |   |   |   |   |

**Nervous System**

Brain + + + + + + + + + + 10

**Respiratory System**

Lung + + + + + + + + + + 10

Nose + + + + + + + + + + 10

Trachea + + + + + + + + + + 10

**Special Senses System**

Eye + + + + + + + + + + 10

Harderian Gland + + + + + + + + + + 10

**Urinary System**

Kidney + + + + + + + + + + 10

Urinary Bladder + + + + + + + + + + 10

**SYSTEMIC LESIONS**

Multiple Organ + + + + + + + + + + 10

\*\*\*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: 99007-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/19/2014

Time Report Requested: 04:54:14

First Dose M/F: NA / NA

Lab: SRI

| B6C3F1 Mouse Female<br>0 PPM | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---------|
|                              |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       |
|                              | 9           | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9       |
|                              | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4       |
| ANIMAL ID                    | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       |
|                              | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       |
|                              | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       |
|                              | 6           | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7       |
|                              | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0       |
|                              |             |   |   |   |   |   |   |   |   |   | *TOTALS |

Alimentary System

|                           |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | 10 |
| Gallbladder               | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | 10 |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | 10 |

Cardiovascular System

|       |   |   |   |   |   |   |   |   |   |   |    |
|-------|---|---|---|---|---|---|---|---|---|---|----|
| Heart | + | + | + | + | + | + | + | + | + | + | 10 |
|-------|---|---|---|---|---|---|---|---|---|---|----|

Endocrine System

|                   |   |   |   |   |   |   |   |   |   |   |    |
|-------------------|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex    | + | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla   | + | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland | I | + | + | + | + | + | + | + | + | + | 9  |
| Pituitary Gland   | + | + | + | + | + | + | + | + | + | + | 10 |

\* ..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: 99007-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/19/2014

Time Report Requested: 04:54:14

First Dose M/F: NA / NA

Lab: SRI

| B6C3F1 Mouse Female<br>0 PPM  | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
|-------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---------|
|                               | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
| Thyroid Gland                 |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10      |
| <b>General Body System</b>    |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |         |
| NONE                          |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |         |
| <b>Genital System</b>         |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
| Clitoral Gland                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
| Ovary                         |             | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 9       |
| Uterus                        |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 10      |
| <b>Hematopoietic System</b>   |             | + | + | + | + | + | + | + | + | + | + |         |
| Bone Marrow                   |             | + | + | + | + | + | + | + | + | + | + | 10      |
| Lymph Node, Mandibular        |             | + | + | + | + | + | + | + | + | + | + | 10      |
| Lymph Node, Mesenteric        |             | + | + | + | + | + | + | + | + | + | + | 10      |
| Spleen                        |             | + | + | + | + | + | + | + | + | + | + | 10      |
| Thymus                        |             | + | + | + | + | + | + | + | + | + | + | 10      |
| <b>Integumentary System</b>   |             | + | + | + | + | + | + | + | + | + | + |         |
| Mammary Gland                 |             | + | + | + | + | + | + | + | + | + | + | 10      |
| Skin                          |             | + | + | + | + | + | + | + | + | + | + | 10      |
| <b>Musculoskeletal System</b> |             | + | + | + | + | + | + | + | + | + | + |         |
| Bone                          |             | + | + | + | + | + | + | + | + | + | + | 10      |
| <b>Nervous System</b>         |             |   |   |   |   |   |   |   |   |   |   |         |

\* ..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: 99007-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/19/2014

Time Report Requested: 04:54:14

First Dose M/F: NA / NA

Lab: SRI

| B6C3F1 Mouse Female<br>0 PPM | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---------|
|                              |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                              |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |         |
|                              |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |         |
|                              | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                              |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                              |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                              |             | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |         |
|                              |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |         |
| Brain                        |             | + | + | + | + | + | + | + | + | + | + | 10      |
| <b>Respiratory System</b>    |             |   |   |   |   |   |   |   |   |   |   |         |
| Lung                         |             | + | + | + | + | + | + | + | + | + | + | 10      |
| Nose                         |             | + | + | + | + | + | + | + | + | + | + | 10      |
| Trachea                      |             | I | + | + | + | + | + | + | + | + | + | 9       |
| <b>Special Senses System</b> |             |   |   |   |   |   |   |   |   |   |   |         |
| Eye                          |             | + | + | + | + | + | + | + | + | + | + | 10      |
| Harderian Gland              |             | + | + | + | + | + | + | + | + | + | + | 10      |
| <b>Urinary System</b>        |             |   |   |   |   |   |   |   |   |   |   |         |
| Kidney                       |             | + | + | + | + | + | + | + | + | + | + | 10      |
| Urinary Bladder              |             | + | + | + | + | + | + | + | + | + | + | 10      |
| <b>SYSTEMIC LESIONS</b>      |             |   |   |   |   |   |   |   |   |   |   |         |
| Multiple Organ               |             | + | + | + | + | + | + | + | + | + | + | 10      |

\* ..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: 99007-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/19/2014

Time Report Requested: 04:54:14

First Dose M/F: NA / NA

Lab: SRI

|   |             |         |   |   |   |   |   |   |   |   |   |
|---|-------------|---------|---|---|---|---|---|---|---|---|---|
| <b>B6C3F1 Mouse Female</b><br><b>3125 PPM</b> | DAY ON TEST | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |             | 9       | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|   |             | 4       | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|   | ANIMAL ID   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |             | 7       | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 |
|   |             | 1       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|   |             | *TOTALS |   |   |   |   |   |   |   |   |   |

**Alimentary System**

Liver + + + + + + + + + + 10

**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: 99007-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/19/2014

Time Report Requested: 04:54:15

First Dose M/F: NA / NA

Lab: SRI

|   |             |         |   |   |   |   |   |   |   |   |   |
|---|-------------|---------|---|---|---|---|---|---|---|---|---|
| <b>B6C3F1 Mouse Female</b><br><b>6250 PPM</b> | DAY ON TEST | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |             | 9       | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|   |             | 4       | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|   | ANIMAL ID   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |             | 8       | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 |
|   |             | 1       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|   |             | *TOTALS |   |   |   |   |   |   |   |   |   |

**Alimentary System**

Liver + + + + + + + + + + 10

**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: 99007-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/19/2014

Time Report Requested: 04:54:15

First Dose M/F: NA / NA

Lab: SRI

|                                 |             |   |   |   |   |   |   |   |   |   |   |         |
|---------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1 Mouse Female<br>6250 PPM | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
|                                 |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                 |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |         |
|                                 |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |         |
|                                 | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                 |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                 |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                 |             | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 |         |
|                                 |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |         |

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

|                |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | 10 |
|----------------|---|---|---|---|---|---|---|---|---|---|---|----|

\* ..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: 99007-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/19/2014

Time Report Requested: 04:54:15

First Dose M/F: NA / NA

Lab: SRI

|  |             |         |   |   |   |   |   |   |   |   |   |
|--|-------------|---------|---|---|---|---|---|---|---|---|---|
| <b>B6C3F1 Mouse Female</b><br><b>12500 PPM</b> | DAY ON TEST | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 9       | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|  |             | 4       | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|  | ANIMAL ID   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  |             | 9       | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
|  |             | 1       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|  |             | *TOTALS |   |   |   |   |   |   |   |   |   |

**Alimentary System**

Liver + + + + + + + + + + 10

**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: 99007-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/19/2014

Time Report Requested: 04:54:15

First Dose M/F: NA / NA

Lab: SRI

|                                  |             |   |   |   |   |   |   |   |   |   |   |         |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1 Mouse Female<br>12500 PPM | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
|                                  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                  |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |         |
|                                  |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |         |
|                                  | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |         |
|                                  |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |         |
|                                  |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |         |

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

|                |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | 10 |
|----------------|---|---|---|---|---|---|---|---|---|---|---|----|

\* ..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: 99007-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/19/2014

Time Report Requested: 04:54:15

First Dose M/F: NA / NA

Lab: SRI

|  |             |         |   |   |   |   |   |   |   |   |   |
|--|-------------|---------|---|---|---|---|---|---|---|---|---|
| <b>B6C3F1 Mouse Female</b><br><b>25000 PPM</b> | DAY ON TEST | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 9       | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|  |             | 4       | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|  | ANIMAL ID   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |             | 1       | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  |             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  |             | 1       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|  |             | *TOTALS |   |   |   |   |   |   |   |   |   |

**Alimentary System**

Liver + + + + + + + + + + 10

**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: 99007-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/19/2014

Time Report Requested: 04:54:15

First Dose M/F: NA / NA

Lab: SRI

|                                  |             |   |   |   |   |   |   |   |   |   |   |         |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1 Mouse Female<br>25000 PPM | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
|                                  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                  |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |         |
|                                  |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |         |
|                                  | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                  |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |         |
|                                  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |         |
|                                  |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |         |

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

|                |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | 10 |
|----------------|---|---|---|---|---|---|---|---|---|---|---|----|

\* ..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: 99007-04

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/19/2014

Test Type: 90-DAY

Test Compound: Goldenseal root powder

Time Report Requested: 04:54:15

Species/Strain: Mouse/B6C3F1

CAS Number: GOLDENSEALRT

First Dose M/F: NA / NA

Lab: SRI

|                                  |             |   |   |   |   |   |   |   |   |   |   |         |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1 Mouse Female<br>50000 PPM | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                  |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |         |
|                                  |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |         |
|                                  | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
|                                  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |         |
|                                  | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |         |
|                                  | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |   |         |
|                                  | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |   |         |

Alimentary System

|                           |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | 10 |
| Gallbladder               | + | + | + | + | + | + | M | + | + | + | 9  |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | 10 |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | 10 |

Cardiovascular System

|              |   |   |   |   |   |   |   |   |   |   |    |
|--------------|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + |   |   |   |   |   |   |   |   |   | 1  |
| Heart        | + | + | + | + | + | + | + | + | + | + | 10 |

Endocrine System

|                   |   |   |   |   |   |   |   |   |   |   |    |
|-------------------|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex    | + | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla   | + | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland | M | + | + | + | + | + | + | + | + | + | 9  |

\* ..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: 99007-04

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/19/2014

Test Type: 90-DAY

Test Compound: Goldenseal root powder

Time Report Requested: 04:54:15

Species/Strain: Mouse/B6C3F1

CAS Number: GOLDENSEALRT

First Dose M/F: NA / NA

Lab: SRI

| B6C3F1 Mouse Female<br>50000 PPM | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---------|
|                                  | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                  |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |         |
|                                  |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |         |
|                                  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                  |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |         |
|                                  |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |         |
|                                  |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |         |
| Pituitary Gland                  |             | + | + | + | + | + | + | + | + | + | + | 10      |
| Thyroid Gland                    |             | + | + | + | + | + | + | + | + | + | + | 10      |
| <b>General Body System</b>       |             |   |   |   |   |   |   |   |   |   |   |         |
| NONE                             |             |   |   |   |   |   |   |   |   |   |   |         |
| <b>Genital System</b>            |             |   |   |   |   |   |   |   |   |   |   |         |
| Clitoral Gland                   |             | + | + | + | + | + | + | + | + | + | + | 10      |
| Ovary                            |             | + | + | + | + | + | + | + | + | + | + | 10      |
| Teratoma Benign                  |             |   |   |   | X |   |   |   |   |   |   | 1       |
| Uterus                           |             | + | + | + | + | + | + | + | + | + | + | 10      |
| <b>Hematopoietic System</b>      |             |   |   |   |   |   |   |   |   |   |   |         |
| Bone Marrow                      |             | + | + | + | + | + | + | + | + | + | + | 10      |
| Lymph Node, Mandibular           |             | + | + | + | + | + | + | + | + | + | + | 10      |
| Lymph Node, Mesenteric           |             | + | + | + | + | + | + | + | + | + | + | 10      |
| Spleen                           |             | + | + | + | + | + | + | + | + | + | + | 10      |
| Thymus                           |             | + | + | + | + | + | + | + | + | + | + | 10      |
| <b>Integumentary System</b>      |             |   |   |   |   |   |   |   |   |   |   |         |
| Mammary Gland                    |             | + | + | + | + | + | + | + | + | + | + | 10      |
| Skin                             |             | + | + | + | + | + | + | + | + | + | + | 10      |
| <b>Musculoskeletal System</b>    |             |   |   |   |   |   |   |   |   |   |   |         |
| Bone                             |             | + | + | + | + | + | + | + | + | + | + | 10      |

\* ..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: 99007-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/19/2014

Time Report Requested: 04:54:15

First Dose M/F: NA / NA

Lab: SRI

| B6C3F1 Mouse Female<br>50000 PPM | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---------|
|                                  | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                  |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |         |
|                                  |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |         |
|                                  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                  |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                  |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |         |
|                                  |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |         |
|                                  |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |         |

**Nervous System**

|       |   |   |   |   |   |   |   |   |   |   |    |
|-------|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | 10 |
|-------|---|---|---|---|---|---|---|---|---|---|----|

**Respiratory System**

|      |   |   |   |   |   |   |   |   |   |   |    |
|------|---|---|---|---|---|---|---|---|---|---|----|
| Lung | + | + | + | + | + | + | + | + | + | + | 10 |
|------|---|---|---|---|---|---|---|---|---|---|----|

|      |   |   |   |   |   |   |   |   |   |   |    |
|------|---|---|---|---|---|---|---|---|---|---|----|
| Nose | + | + | + | + | + | + | + | + | + | + | 10 |
|------|---|---|---|---|---|---|---|---|---|---|----|

|         |   |   |   |   |   |   |   |   |   |   |    |
|---------|---|---|---|---|---|---|---|---|---|---|----|
| Trachea | + | + | + | + | + | + | + | + | + | + | 10 |
|---------|---|---|---|---|---|---|---|---|---|---|----|

**Special Senses System**

|     |   |   |   |   |   |   |   |   |   |   |    |
|-----|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | 10 |
|-----|---|---|---|---|---|---|---|---|---|---|----|

|                 |   |   |   |   |   |   |   |   |   |   |    |
|-----------------|---|---|---|---|---|---|---|---|---|---|----|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | 10 |
|-----------------|---|---|---|---|---|---|---|---|---|---|----|

**Urinary System**

|        |   |   |   |   |   |   |   |   |   |   |    |
|--------|---|---|---|---|---|---|---|---|---|---|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | 10 |
|--------|---|---|---|---|---|---|---|---|---|---|----|

|                 |   |   |   |   |   |   |   |   |   |   |    |
|-----------------|---|---|---|---|---|---|---|---|---|---|----|
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | 10 |
|-----------------|---|---|---|---|---|---|---|---|---|---|----|

**SYSTEMIC LESIONS**

|                |   |   |   |   |   |   |   |   |   |   |    |
|----------------|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | 10 |
|----------------|---|---|---|---|---|---|---|---|---|---|----|

\*\* END OF REPORT \*\*

\* ..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