Experiment Number: 99007-01
Test Type: 14-DAY
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014
Time Report Requested: 18:15:24
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
Experiment Number: 99007-01  
Test Type: 14-DAY  
Route: DOSED FEED  
Species/Strain: Rat/F 344/N  
Test Compound: Goldenseal root powder  
CAS Number: GOLDENSEALRT  
Date Report Requested: 10/21/2014  
Time Report Requested: 18:15:24  
First Dose M/F: NA / NA  
Lab: MBA

<table>
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<tr>
<th>Disposition Summary</th>
<th>VEHICLE CONTROL</th>
<th>1560 PPM</th>
<th>3121 PPM</th>
<th>6250 PPM</th>
<th>12500 PPM</th>
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<td>Terminal Sacrifice</td>
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ALIMENTARY SYSTEM

| Liver | (5) | (0) | (1) | (0) | (5) | (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

---

a - Number of animals examined microscopically at site and number of animals with lesion
b - Primary tumors: all tumors except metastatic tumors
* Number of animals with any tissue examined microscopically
<table>
<thead>
<tr>
<th>F 344/N Rat MALE</th>
<th>VEHICLE CONTROL</th>
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a - Number of animals examined microscopically at site and number of animals with lesion
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* Number of animals with any tissue examined microscopically
F 344/N Rat MALE  

Disposition Summary

Animals Initially In Study 5
Early Deaths
Survivors
  Terminal Sacrifice 5
Animals Examined Microscopically 5

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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a - Number of animals examined microscopically at site and number of animals with lesion
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P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

<table>
<thead>
<tr>
<th>Species/Strain</th>
<th>Compound</th>
<th>Dose</th>
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<tbody>
<tr>
<td>F 344/N Rat MALE</td>
<td>50000 PPM</td>
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</tbody>
</table>

- RESPIRATORY SYSTEM
  None

- SPECIAL SENSES SYSTEM
  None

- URINARY SYSTEM
  None

---

a - Number of animals examined microscopically at site and number of animals with lesion
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* Number of animals with any tissue examined microscopically

Page 5
Experiment Number: 99007-01
Test Type: 14-DAY
Route: DOSED FEED
Species/Strain: Rat/F 344/N

P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014
Time Report Requested: 18:15:25
First Dose M/F: NA / NA
Lab: MBA

F 344/N Rat MALE

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<tbody>
<tr>
<td>Tumor Summary for MALE</td>
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<tr>
<td>Total Animals with Primary Neoplasms (b)</td>
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<tr>
<td>Total Primary Neoplasms</td>
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<td>Total Animals with Benign Neoplasms</td>
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<tr>
<td>Total Animals with Malignant Neoplasms</td>
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<tr>
<td>Total Animals with Neoplasms Uncertain - Benign or Malignant</td>
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<td>Total Uncertain Neoplasms</td>
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---

a - Number of animals examined microscopically at site and number of animals with lesion
b - Primary tumors: all tumors except metastatic tumors
* Number of animals with any tissue examined microscopically
F 344/N Rat MALE  50000  PPM

Tumor Summary for MALE

Total Animals with Primary Neoplasms (b)
  Total Primary Neoplasms

Total Animals with Benign Neoplasms
  Total Benign Neoplasms

Total Animals with Malignant Neoplasms
  Total Malignant Neoplasms

Total Animals with Metastatic Neoplasms
  Total Metastatic Neoplasms

Total Animals with Malignant Neoplasms Uncertain Primary Site

Total Animals with Neoplasms Uncertain - Benign or Malignant
  Total Uncertain Neoplasms

***END OF MALE DATA***
### Experiment Number:
99007-01

**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

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

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 18:15:25  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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### Disposition Summary

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### ALIMENTARY SYSTEM

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### 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

---

a - Number of animals examined microscopically at site and number of animals with lesion  
b - Primary tumors: all tumors except metastatic tumors  
* Number of animals with any tissue examined microscopically
Experiment Number: 99007-01  
Test Type: 14-DAY  
Route: DOSED FEED  
Species/Strain: Rat/F 344/N

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</table>

**RESPIRATORY SYSTEM**  
None

**SPECIAL SENSES SYSTEM**  
None

**URINARY SYSTEM**  
None

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a - Number of animals examined microscopically at site and number of animals with lesion  
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Experiment Number: 99007-01  
Test Type: 14-DAY  
Route: DOSED FEED  
Species/Strain: Rat/F 344/N  
Test Compound: Goldenseal root powder  
CAS Number: GOLDENSEALRT  
Date Report Requested: 10/21/2014  
Time Report Requested: 18:15:25  
First Dose M/F: NA / NA  
Lab: MBA

### F 344/N Rat FEMALE 50000 PPM

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<td>SPECIAL SENSES SYSTEM</td>
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**Experiment Number:** 99007-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N  

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### P02: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (a)

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

---

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 18:15:25  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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</table>

**Tumor Summary for FEMALE**

- Total Animals with Primary Neoplasms (b)
  - Total Primary Neoplasms
- Total Animals with Benign Neoplasms
  - Total Benign Neoplasms
- Total Animals with Malignant Neoplasms
  - Total Malignant Neoplasms
- Total Animals with Metastatic Neoplasms
  - Total Metastatic Neoplasms
- Total Animals with Malignant Neoplasms Uncertain Primary Site
- Total Animals with Neoplasms Uncertain - Benign or Malignant
  - Total Uncertain Neoplasms

**END OF REPORT**

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