

Experiment Number: 99007-05
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014
Time Report Requested: 07:44:13
First Dose M/F: NA / NA
Lab: SRI

C Number: C99007B
Lock Date: 08/07/2006
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: 08/15/2008

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 571

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108159

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Kupffer Cell	Pigmentation	Moderate
	[Hyperplasia TGLS = 8-6]		
	[Leukemia Mononuclear TGLS = 8-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-2]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-3]		
	[Leukemia Mononuclear TGLS = 3-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-5]		
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

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Species/Strain: Rat/F 344/N

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Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1	TRT#: 1	SEX: Male	DAY ON TEST: 571
	DOSE: 0 PPM	DISP: Moribund Sacrifice	HISTO: 108159

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 7-1]		Leukemia Mononuclear	
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Mild
		Ulcer	Moderate
[Ulcer TGLS = 9-21]			
* Stomach, Glandular		Erosion	Minimal
[Erosion TGLS = 9-4]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 611
	DOSE: 0 PPM	DISP: Moribund Sacrifice	HISTO: 108160

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia Hypertrophy	Moderate Focal, Mild
* Bone		Osteosarcoma	
Note: TGL 1 IS CONSIDERED A TELANGIECTATIC TYPE OSTEOSARCOMA. [Osteosarcoma TGLS = 1-21]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Nose	Respirat Epith	Foreign Body Hyperplasia Inflammation	Mild Chronic, Mild
* Pancreas		Atrophy Cyst	Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Cyst	
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Bone Osteosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 656 HISTO: 108161
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
	Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Mesentery		Accessory Spleen	
[Accessory Spleen TGLS = 5-22]			
* Pancreas		Atrophy	Mild
		Cyst	
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-21]			
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Mild
		Ulcer	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3	TRT#: 1	SEX: Male	DAY ON TEST: 656
	DOSE: 0 PPM	DISP: Moribund Sacrifice	HISTO: 108161

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 6-4]			
* Stomach, Glandular		Erosion	Mild
[Erosion TGLS = 6-4]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			
* Thyroid Gland	Follicle	Cyst	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

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Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 501

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Ependymoma Malignant	
[Ependymoma Malignant TGLS = 4-1]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 3-3]			
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Ulcer	Marked
[Hyperplasia TGLS = 5-4]			
[Ulcer TGLS = 5-4]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH - Brain Ependymoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 575

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108163

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Necrosis	Mild
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Pancreas		Atrophy	Mild
		Cyst	
* Spleen		Fibrous Histiocytoma	
		Leukemia Mononuclear	
	[Fibrous Histiocytoma TGLS = 2-6]		
	[Leukemia Mononuclear TGLS = 3-21]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Spleen Fibrous Histiocytoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 6	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 108164
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
Note: BASOPHILIC FOCUS IS PRESENT ON SLIDE 21. [Hepatodiaphragmatic Nodule TGLS = 2-21]			
* Lung		Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Nose		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 108165
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
* Lung	Bile Duct	Hyperplasia	Minimal
	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
		Metaplasia	Osseous, Minimal
Lymph Node	Pancreatic	Hemorrhage	Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
	Acinus	Hyperplasia	Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 108166

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Leukemia Mononuclear TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-7]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-22]			
* Pancreas		Mixed Tumor Malignant	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Skin		Hyperkeratosis	Marked
	Epidermis	Hyperplasia	Moderate
[Hyperkeratosis TGLS = 1-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 108166

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 1-21]	
* Spleen	Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 4-6]	
* Testes	Bilateral, Interstit Cell
[Adenoma TGLS = 3-7]	Adenoma

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 108167
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
[Hyperplasia TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Prostate		Adenoma	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108168

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney	Transit Epithe	Carcinoma	
		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2-6]	
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 1-7]	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
	[Mixed Cell Focus TGLS = 2-21]		
* Lung		Carcinoma	
		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic, Moderate
		Metaplasia	Osseous, Minimal
	[Carcinoma TGLS = 3-2]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108169

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108170

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 4-6] Leukemia Mononuclear

* Testes [Adenoma TGLS = 3-7] Bilateral, Interstit Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 600

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Pheochromocytoma Benign	Multiple
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Marked
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Edema	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Hyperplasia TGLS = 7-6]		
	[Leukemia Mononuclear TGLS = 7-6]		
* Lung		Metaplasia	Osseous, Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-7]		
	[Leukemia Mononuclear TGLS = 8-3]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Lipoma	
	Fat	Necrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 600

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108171

ORGAN AND ACCOUNTABLE SITE STATUS

[Lipoma TGLS = 2-21]

* Nose		Foreign Body	
* Pancreas		Atrophy	Minimal
		Cyst	
* Preputial Gland		Inflammation	Chronic, Mild
Skeletal Muscle		Atrophy	Mild
* Skin		Hyperkeratosis	Moderate
	Epidermis	Hyperplasia	Mild
	[Hyperkeratosis TGLS = 5-22]		
	[Hyperplasia TGLS = 5-22]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
	[Hematopoietic Cell Proliferation TGLS = 3-6]		
	[Leukemia Mononuclear TGLS = 3-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 706

DOSE: 0 PPM

DISP: Natural Death

HISTO: 108172

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Intestine Small, Ileum

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Brain		Compression	Moderate
[Compression TGLS = 4-1]			
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	Multiple
[Adenoma TGLS = 2-7]			
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Mixed Cell Focus	
		Hyperplasia	Mild
* Mammary Gland			
[Hyperplasia TGLS = 1-8]			
Mesentery		Accessory Spleen	
[Accessory Spleen TGLS = 3-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Prostate		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 706

DOSE: 0 PPM

DISP: Natural Death

HISTO: 108172

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Islets;Pancreatic Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
[Basophilic Focus TGLS = 3-6]			
[Clear Cell Focus TGLS = 3-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
	Acinus	Hyperplasia	Focal, Minimal
Note: FOCAL ACINAR HYPERPLASIA IS ON SLIDE 4.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108173

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Focal, Minimal
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[Hyperplasia TGLS = 4-6]	
		[Leukemia Mononuclear TGLS = 4-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
		Metaplasia	Osseous, Mild
* Pancreas		Atrophy	Moderate
		[Atrophy TGLS = 3-7]	
* Pituitary Gland	Pars Intermed	Cyst	
* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2-6]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108174

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

Epithelium

Hyperplasia

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Adenoma

Tongue

Squamous Cell Papilloma

[Squamous Cell Papilloma TGLS = 5-21]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Testes	Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 1

DOSE: 0 PPM

SEX: Male

DISP: Natural Death

DAY ON TEST: 407

HISTO: 108176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Lymph Node, Mesenteric * Spleen

OBSERVATIONS

* Brain		Compression	Moderate
		Hemorrhage	Moderate
[Compression TGLS = 3-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic, Moderate
[Hemorrhage TGLS = 1-2]			
[Infiltration Cellular TGLS = 1-2]			
[Inflammation TGLS = 1-2]			
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Prostate		Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 456

DOSE: 0 PPM

DISP: Natural Death

HISTO: 108177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Bone Marrow	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Brain		Hemorrhage	Moderate
[Hemorrhage TGLS = 7-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6,5-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-5]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-21]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 422

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
		Nephropathy	Minimal
* Liver		Rhabdomyosarcoma	Metastatic (Skeletal Muscle)
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
Skeletal Muscle		Rhabdomyosarcoma	
		[Rhabdomyosarcoma TGLS = 1-21]	
* Skin		Ulcer	Marked
		[Ulcer TGLS = 2-22]	
* Spleen		Hematopoietic Cell Proliferation	Moderate
		[Hematopoietic Cell Proliferation TGLS = 3-6]	

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Rhabdomyosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Mild
* Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
[Cataract TGLS = 1-44]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Atrophy	Focal, Moderate
		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
	Kupffer Cell	Pigmentation	Moderate
[Atrophy TGLS = 3-21]			
[Pigmentation TGLS = 3-21]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108179

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 593

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	Skeletal Muscle	* Skin
Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Adrenal Medulla

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Minimal
* Bone		Chordoma	
[Chordoma TGLS = 5-22,6-23]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
[Hepatodiaphragmatic Nodule TGLS = 3-21]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Moderate
[Hemorrhage TGLS = 4-3]			
[Hyperplasia TGLS = 4-3]			
* Nose		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Intermed	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014
Time Report Requested: 07:44:13
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 22	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 593 HISTO: 108180
ORGAN AND ACCOUNTABLE SITE STATUS			
* Testes	Pars Distalis Interstit Cell Interstit Cell	Hyperplasia Adenoma Hyperplasia	Focal, Minimal Minimal
[Adenoma TGLS = 1-7]			
PRIMARY CAUSE OF DEATH	- Bone Chordoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Mammary Gland	Mesentery	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 1

DOSE: 0 PPM

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 108182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Pheochromocytoma Malignant	
	[Pheochromocytoma Malignant TGLS = 4-10]		
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hyperplasia TGLS = 5-6]		
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[Adenoma TGLS = 2-7]		
	[Atrophy TGLS = 1-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108182

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Mammary Gland		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 5-23]			
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Skin		Cyst Epithelial Inclusion	
	Subcut Tiss	Fibroma	Multiple

Note: THE FIBROMA ON SLIDE 22 CONTAINS MODERATE AMOUNT OF ADIPOSE TISSUE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108183

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst Epithelial Inclusion TGLS = 6-24]

[Fibroma TGLS = 1-21,2-22]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Minimal
* Bone Marrow		Hemorrhage	Mild
* Heart		Cardiomyopathy Thrombosis	Moderate Moderate
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia Mixed Cell Focus	Mild
* Lung	Alveolar Epith	Emphysema Hyperplasia Infiltration Cellular	Mild Minimal Histiocyte, Mild
		[Emphysema TGLS = 2-21]	
		[Infiltration Cellular TGLS = 2-21]	
* Pancreas		Atrophy Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 1-1]	
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Germinal Epith	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 1

DOSE: 0 PPM

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 108184

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Harderian Gland		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 2-21]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Carcinoma	
		Inflammation	Chronic, Moderate
	[Carcinoma TGLS = 1-8]		
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Lipoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108185

ORGAN AND ACCOUNTABLE SITE STATUS

[Lipoma TGLS = 3-22]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Inflammation	Chronic, Minimal
* Nose		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		
* Thymus		Hyperplasia	Lymphoid, Moderate
		Thymoma Benign	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108187

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
Note: CLEAR CELL FOCI ARE ON SLIDES 6 AND 21. [Clear Cell Focus TGLS = 2-21]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 583

DOSE: 0 PPM

DISP: Natural Death

HISTO: 108188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Inflammation	Suppurative, Minimal
		Leukemia Mononuclear	
Note: NUMEROUS BACTERIAL EMBOLI WITHIN GLOMERULI; MORPHOLOGY UNAVAILABLE ON TDMS.			
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-5]		
* Pancreas	Acinus	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Note: THE FOCAL HYPERPLASIA IS PRESENT ON SLIDE 4.			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 1

DOSE: 0 PPM

SEX: Male

DISP: Natural Death

DAY ON TEST: 583

HISTO: 108188

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Inflammation	Chronic, Mild
* Salivary Glands	Atrophy	Minimal
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]		
* Thymus	Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|----------|-------------------------------------|-----------------------|---------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hemorrhage | Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| | [Hemorrhage TGLS = 2-6] | | |
| | [Leukemia Mononuclear TGLS = 2-6] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic, Mild |
| | [Inflammation TGLS = 3-21] | | |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLS = 1-7] | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Epididymis		Granuloma Sperm	Moderate
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Eosinophilic Focus TGLS = 4-22]			
* Lung		Cyst	
	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
[Cyst TGLS = 6-24]			
[Hyperplasia TGLS = 6-24]			
[Infiltration Cellular TGLS = 5-23]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Cyst	
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108190

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 1-21]

* Stomach, Glandular

Epithelium

Hyperplasia

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Ectasia	Moderate
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-21]			
* Pancreas		Atrophy	Minimal
* Salivary Glands		Atrophy	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 1

DOSE: 0 PPM

SEX: Male

DISP: Natural Death

DAY ON TEST: 561

HISTO: 108192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Necrosis	Marked
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear Necrosis	Focal, Moderate
		[Leukemia Mononuclear TGLS = 5-6]	
		[Necrosis TGLS = 6-21]	
* Lung		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
		[Infiltration Cellular TGLS = 9-22]	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2-23]	
		[Leukemia Mononuclear TGLS = 8-3]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 561

DOSE: 0 PPM

DISP: Natural Death

HISTO: 108192

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-5]

* Pancreas

Leukemia Mononuclear

* Seminal Vesicle

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-6]

* Testes

Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

Tongue

Epithelium

Hyperplasia

Minimal

[Hyperplasia TGLS = 10-24]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 563

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Ectasia	Marked
	Deep Cervical	Hyperplasia	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Moderate
[Ectasia TGLS = 3-3]			
[Hyperplasia TGLS = 5-21]			
[Hyperplasia TGLS = 3-3]			
Oral Mucosa		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 4-22]			
* Pituitary Gland	Pars Distalis	Cyst	
* Salivary Glands		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Oral Mucosa Squamous Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 108194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Brain	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 711

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Mild
* Bone		Osteosarcoma	
[Osteosarcoma TGLS = 4-21]			
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Marked
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
		Metaplasia	Osseous, Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Hemorrhage	Chronic, Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
[Hemorrhage TGLS = 5-1]			
[Hyperplasia TGLS = 5-1]			
* Preputial Gland		Cyst	
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 711

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108195

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-6]

* Stomach, Glandular

Erosion

Minimal

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Moderate

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Bone Osteosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108196

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
Mesentery		Inflammation	Chronic, Moderate
Note: CHRONIC INFLAMMATION ON SLIDE 21 INCLUDES ADHESION BETWEEN LIVER AND FORESTOMACH.			
[Inflammation TGLS = 3-21]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 2-7]			
[Atrophy TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 1

DOSE: 0 PPM

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 108196

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108197

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Hyperplasia Leukemia Mononuclear	Moderate Focal, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Eosinophilic Focus Hyperplasia Leukemia Mononuclear	Moderate
		[Hyperplasia TGLS = 5-6]	
		[Leukemia Mononuclear TGLS = 5-6]	
* Lung		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-7]	
		[Leukemia Mononuclear TGLS = 4-3]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108197

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Hyperplasia

Focal, Moderate

* Spleen

[Leukemia Mononuclear TGLS = 2-6]

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108198

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-----------------------------|---------------------------|---------------------------|----------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Infiltration Cellular | Mixed Cell, Moderate |
| * Pancreas | | Cyst | |
| * Preputial Gland | | Hyperplasia | Mild |
| | | Inflammation | Chronic, Moderate |
| * Stomach, Glandular | Epithelium | Hyperplasia | Moderate |
| [Hyperplasia TGLS = 2-21] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | Follicle | Cyst | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
	Hepatocyte	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
	[Hepatocellular Adenoma TGLS = UPL B]		
	[Hyperplasia TGLS = 3-6]		
	[Hyperplasia TGLS = UPL A]		
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 4-21]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108199

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

[Leukemia Mononuclear TGLS = 2-6]

Inflammation

Chronic, Mild

Leukemia Mononuclear

* Testes

[Adenoma TGLS = 1-7]

Bilateral, Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Pancreas		Cyst	
* Skin	Subcut Tiss	Fibroma	
		Hyperkeratosis	Moderate
	Epidermis	Hyperplasia	Moderate
		Inflammation	Chronic, Mild
[Fibroma TGLS = 3-22]			
[Hyperkeratosis TGLS = 1-21]			
[Hyperplasia TGLS = 1-21]			
[Inflammation TGLS = 1-21]			
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108200

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-7]

Germinal Epith

Atrophy

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108202

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Mild
* Eye		Cataract	Moderate
	Retina	Degeneration	Marked
	[Cataract TGLS = 2-44]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
* Pancreas		Atrophy	Minimal
		Cyst	
* Preputial Gland		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 108202
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ORGAN AND ACCOUNTABLE SITE STATUS			
* Prostate		Inflammation	Chronic, Mild
* Skin		Inflammation	Chronic, Minimal
		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Mild
	[Hyperkeratosis TGLS = 3-21]		
	[Hyperplasia TGLS = 3-21]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 663

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia Leukemia Mononuclear	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy Leukemia Mononuclear	Mild
* Kidney		Leukemia Mononuclear	
* Liver	Bile Duct	Nephropathy Hyperplasia Leukemia Mononuclear	Minimal Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Hyperplasia TGLS = 5-6]		
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Infiltration Cellular Leukemia Mononuclear Leukemia Mononuclear	Histiocyte, Minimal
* Lymph Node, Mesenteric			
	[Leukemia Mononuclear TGLS = 4-21]		
* Pancreas	Acinus	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 663

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108203

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-6]

* Stomach, Forestomach

Epithelium

Hyperplasia

Mild

[Hyperplasia TGLS = 6-22]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Intestine Small, Ileum	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Clear Cell Focus	
		Hyperplasia	Minimal
		Mixed Cell Focus	
[Clear Cell Focus TGLS = 2-6]			
[Mixed Cell Focus TGLS = 2-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Nose		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
* Prostate		Inflammation	Chronic, Minimal
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Mild
Mesentery		Accessory Spleen	
[Accessory Spleen TGLS = 1-21]			
* Skin	Epidermis	Hyperplasia	Moderate
		Inflammation	Chronic, Moderate
[Hyperplasia TGLS = 2-22]			
[Inflammation TGLS = 2-22]			
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108205

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Esophagus

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Carcinoma	
	[Carcinoma TGLS = 1-21]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108207

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Clear Cell Focus	
		Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
[Angiectasis TGLS = 1-1]			
* Preputial Gland		Hyperplasia	Focal, Mild
		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108207

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:13

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 716

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Necrosis	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Marked
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hyperplasia TGLS = 4-6]		
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	[Infiltration Cellular TGLS = 10-2]		
	[Leukemia Mononuclear TGLS = 10-2]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-3]		
* Lymph Node, Mesenteric		Ectasia	Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 716

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108208

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 8-5]

* Nose		Inflammation	Chronic, Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	

[Leukemia Mononuclear TGLS = 9-1]

* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	

[Leukemia Mononuclear TGLS = 3-6]

* Testes	Bilateral, Interstit Cell	Adenoma	
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[Adenoma TGLS = 2-7]

* Thyroid Gland	C Cell	Adenoma	
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[Adenoma TGLS = 7-3]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Thyroid Gland C Cell Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 506

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 108209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mesenteric
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AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Medulla [Pheochromocytoma Malignant TGLS = 2-10]		Pheochromocytoma Malignant	Multiple
* Heart [Cardiomyopathy TGLS = 4-12]		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Hemorrhage	Marked
		Necrosis	Marked
* Lung		Infiltration Cellular	Histiocyte, Moderate
Mesentery [Necrosis TGLS = 1-21]	Fat	Necrosis	Marked
* Nose		Inflammation	Chronic, Minimal
* Testes [Adenoma TGLS = 5-7]	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- Adrenal Medulla Pheochromocytoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 52

TRT#: 3

SEX: Male

DAY ON TEST: 565

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Nose	* Pancreas
Peripheral Nerve	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	Skeletal Muscle	Spinal Cord	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Preputial Gland		Adenoma	
* Skin		Hyperkeratosis	Marked
[Hyperkeratosis TGLS = 1-21]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Tissue NOS		Hemorrhage	Moderate

Note: TISSUE NOS IS INTERMUSCULAR CONNECTIVE TISSUE ADJACENT TO PELVIC SKELETAL MUSCLE. HEMORRHAGE WAS OBSERVED ONLY ON SLIDE 22.

[Hemorrhage TGLS = 3-22]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108211

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 4-6]			
* Skin		Cyst Epithelial Inclusion	
[Cyst Epithelial Inclusion TGLS = 1-21]			
* Spleen		Accessory Spleen	
[Accessory Spleen TGLS = 3-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 696

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108212

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
[Infiltration Cellular TGLS = 6-2]			
[Inflammation TGLS = 6-2]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-23]			
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Edema	Mild
	Subcut Tiss	Myxosarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 696

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108212

ORGAN AND ACCOUNTABLE SITE STATUS

[Edema TGLS = 1-21]

[Myxosarcoma TGLS = 2-22]

* Testes

Interstit Cell

Adenoma

Interstit Cell

Hyperplasia

Mild

[Adenoma TGLS = 3-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Myxosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 55

TRT#: 3

SEX: Male

DAY ON TEST: 645

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108213

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
[Cardiomyopathy TGLS = 7-12]			
* Kidney		Cyst	
[Cyst TGLS = 4-5]		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
[Hepatodiaphragmatic Nodule TGLS = 6-22]			
* Lung		Carcinoma	Metastatic (Thyroid Gland)
		Hemorrhage	Mild
		Inflammation	Suppurative, Mild
[Carcinoma TGLS = 11-23,12-24,13-25,14-26,15-27,16-2]			
Lymph Node	Deep Cervical	Carcinoma	Metastatic (Thyroid Gland)
	Mediastinal	Carcinoma	Metastatic (Thyroid Gland)
[Carcinoma TGLS = 17-28]			
[Carcinoma TGLS = 10-29]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014
Time Report Requested: 07:44:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 55	TRT#: 3 DOSE: 3000 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 645 HISTO: 108213
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ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Carcinoma	Multiple
[Carcinoma TGLS = 8-3,9-3]			
Urethra		Angiectasis	Moderate
[Angiectasis TGLS = 18-30]			

PRIMARY CAUSE OF DEATH	- Thyroid Gland C Cell Carcinoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 656

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108214

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Moderate
		Leukemia Mononuclear	
	[Hemorrhage TGLS = 6-1]		
	[Leukemia Mononuclear TGLS = 6-1]		
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Edema	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Hyperplasia TGLS = 5-6]		
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-5]		
Spinal Cord		Leukemia Mononuclear	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 656

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108214

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 3-6]

[Leukemia Mononuclear TGLS = 3-6]

* Stomach, Forestomach

Edema

Mild

Erosion

Minimal

* Stomach, Glandular

Erosion

Minimal

[Erosion TGLS = 8-4]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 57	TRT#: 3 DOSE: 3000 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 108215
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Basophilic Focus Degeneration Hepatodiaphragmatic Nodule Mixed Cell Focus	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 3-21]		
* Nose		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108216

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Intestine Large, Colon	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Pheochromocytoma Malignant	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Minimal
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
[Clear Cell Focus TGLS = 1-6]			
[Mixed Cell Focus TGLS = 1-6]			
* Lung		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Preputial GI			
Note: PREPUTIAL GLAND IS ON SLIDE 7-1.			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108216

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108217

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Minimal
		Hemorrhage	Mild
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 3-6]		
	[Clear Cell Focus TGLS = 3-6]		
	[Hemorrhage TGLS = 3-6]		
	[Mixed Cell Focus TGLS = 3-6]		
* Lung		Hemorrhage	Mild
		Inflammation	Chronic, Minimal
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108217

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland

Inflammation

Chronic, Mild

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 60

TRT#: 3

SEX: Male

DAY ON TEST: 530

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108218

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Foreign Body	
* Pancreas		Cyst	
	Acinus	Cytoplasmic Alteration	Moderate
* Preputial Gland		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-21]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Ulcer	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 60

TRT#: 3

SEX: Male

DAY ON TEST: 530

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108218

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 6-22]

* Stomach, Glandular

Ulcer

Moderate

[Ulcer TGLS = 6-22]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 5-7]

* Thymus

Note: THYMUS IS PRESENT ON SLIDE 4.

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108219

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 3-10]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Mixed Cell Focus	
[Hepatodiaphragmatic Nodule TGLS = 4-21]			
* Pancreas		Atrophy	Moderate
		Cyst	
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
[Adenoma TGLS = 1-7]			
[Atrophy TGLS = 2-7]			
* Thymus		Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108219

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 576

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108220

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Vacuolization Cytoplasmic	Focal, Minimal
* Bone Marrow	Histiocytic Sarcoma	
	Hyperplasia	Marked
	Leukemia Mononuclear	
* Brain	Histiocytic Sarcoma	
* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Minimal
* Liver	Hematopoietic Cell Proliferation	Minimal
	Histiocytic Sarcoma	
	Leukemia Mononuclear	
[Histiocytic Sarcoma TGLS = 3-6,4-21,5-22,6-23,7-24,8-25,9-6]		
* Lung	Hemorrhage	Moderate
	Histiocytic Sarcoma	
	Infiltration Cellular	Histiocyte, Moderate
[Hemorrhage TGLS = 10-2]		
[Histiocytic Sarcoma TGLS = 10-2]		
[Infiltration Cellular TGLS = 10-2]		
* Lymph Node, Mesenteric	Hyperplasia	Lymphoid, Mild
* Nose	Histiocytic Sarcoma	
* Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 576

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108220

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach

Epithelium

Hyperplasia

Moderate

Ulcer

Moderate

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Liver Histiocytic Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 632

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	Peripheral Nerve	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Eye		Inflammation	Chronic, Marked
		Rhabdomyosarcoma	Metastatic (Harderian Gland)
[Inflammation TGLS = 11-44]			
[Rhabdomyosarcoma TGLS = 11-44]			
* Harderian Gland		Rhabdomyosarcoma	
[Rhabdomyosarcoma TGLS = 12-12]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 5-22]			
* Lung		Inflammation	Chronic, Minimal
Lymph Node	Deep Cervical	Carcinoma	Metastatic (Thyroid Gland)
	Deep Cervical	Rhabdomyosarcoma	Metastatic (Harderian Gland)
	Mediastinal	Rhabdomyosarcoma	Metastatic (Harderian Gland)
[Carcinoma TGLS = 6-23]			
[Rhabdomyosarcoma TGLS = 8-3]			
[Rhabdomyosarcoma TGLS = 6-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 632

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108221

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric Mesentery [Necrosis TGLS = 1-21]	Fat	Leukemia Mononuclear Necrosis	Mild
* Pituitary Gland [Angiectasis TGLS = 10-1]	Pars Distalis Pars Distalis	Adenoma Angiectasis	Marked
* Prostate		Inflammation	Chronic, Moderate
* Spleen [Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland [Carcinoma TGLS = 7-3]	C Cell C Cell	Adenoma Carcinoma	

PRIMARY CAUSE OF DEATH

- Harderian Gland Rhabdomyosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Spleen Leukemia Mononuclear;Thyroid Gland C Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108222

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 4-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 2-6]	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 355

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108223

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Diffuse, Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Renal Tubule	Pigmentation	Moderate
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Hyperplasia TGLS = 5-6]		
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-5]		
* Skin		Edema	Moderate
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Stomach, Forestomach		Ulcer	Moderate
* Stomach, Glandular		Erosion	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 355

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108223

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

[Leukemia Mononuclear TGLS = 2-7]

Leukemia Mononuclear

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108224

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Metaplasia	Osseous, Minimal
* Prostate		Adenoma	
	Epithelium	Hyperplasia	Minimal
* Salivary Glands		Atrophy	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108225

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
Note: ISLET ADENOMA IS ON SLIDE 4.			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Minimal
		Leukemia Mononuclear	
		[Hyperplasia TGLS = 3-6]	
		[Leukemia Mononuclear TGLS = 3-6]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2-6]	
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
		[Adenoma TGLS = 1-7]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108225

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Minimal
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Minimal
[Basophilic Focus TGLS = 2-6]			
[Clear Cell Focus TGLS = 2-6]			
* Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Histiocyte, Moderate
[Alveolar/Bronchiolar Carcinoma TGLS = 3-21]			
[Infiltration Cellular TGLS = 4-2]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pancreas		Atrophy	Mild
* Prostate		Inflammation	Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108226

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108227

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Minimal
	Hepatocyte	Hypertrophy	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 4-6]			
[Clear Cell Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-22]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108227

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Infiltration Cellular

Mixed Cell, Mild

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 678

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
		Hemorrhage	Moderate
		Necrosis	Mild
[Compression TGLS = 8-1]			
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Eosinophilic Focus	
		Hyperplasia	Mild
		Leukemia Mononuclear	
[Hyperplasia TGLS = 6-6]			
[Leukemia Mononuclear TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 7-2]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-7]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 678

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108228

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Moderate
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-1]			
* Prostate		Inflammation	Chronic, Moderate
[Inflammation TGLS = 5-7-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
[Hematopoietic Cell Proliferation TGLS = 3-6]			
[Leukemia Mononuclear TGLS = 3-6]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 1-7]			
* Urinary Bladder		Hemorrhage	Minimal
[Hemorrhage TGLS = 4-8]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
* Bone Marrow		Hyperplasia	Mild
		Myelofibrosis	Mild
* Epididymis		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Metaplasia	Osseous, Minimal
* Pancreas		Atrophy	Mild
		Cyst	
* Pituitary Gland	Pars Intermed	Cyst	
* Skin		Basal Cell Carcinoma	
	[Basal Cell Carcinoma TGLS = 1-21]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 642

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Degeneration	Minimal
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
[Clear Cell Focus TGLS = 2-6]			
[Mixed Cell Focus TGLS = 2-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
		Cyst	
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

- Preputial Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Minimal
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
[Basophilic Focus TGLS = 2-6]			
[Hyperplasia TGLS = 2-6]			
* Lymph Node, Mesenteric		Ectasia	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108231

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Intestine Large, Colon	* Lymph Node, Mandibular
--------------------------	--------------------------

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 5-10]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Angiectasis	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIOMA IS PRESENT ON SLIDES 7, 7-1, AND 21.			
[Mesothelioma Malignant TGLS = 1-21]			
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108232

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation Leukemia Mononuclear	Mild
	[Hematopoietic Cell Proliferation TGLS = 4-6] [Leukemia Mononuclear TGLS = 4-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-7]		
Tongue		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLS = 6-22]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 684

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108233

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Mild
* Liver		Degeneration	Cystic, Moderate
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Hepatocellular Adenoma TGLS = 4-6]		
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-2]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-5]		
* Pancreas		Atrophy	Marked
		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 684

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108233

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
		Ulcer	Moderate
[Hyperplasia TGLS = 6-4]			
[Inflammation TGLS = 6-4]			
[Ulcer TGLS = 6-4]			
* Stomach, Glandular		Ulcer	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108234

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Minimal
[Pheochromocytoma Benign TGLS = 1-10]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus Clear Cell Focus Degeneration Hepatodiaphragmatic Nodule	Minimal
	Hepatocyte		
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy Mixed Cell Focus	Mild
[Basophilic Focus TGLS = 4-6]			
[Clear Cell Focus TGLS = 4-6]			
[Hepatodiaphragmatic Nodule TGLS = 3-21]			
[Hypertrophy TGLS = 4-6]			
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 76	TRT#: 3 DOSE: 3000 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 108234
ORGAN AND ACCOUNTABLE SITE STATUS			
[Angiectasis TGLS = 5-1]	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Esophagus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Mild
	[Compression TGLS = 11-1]		
* Eye	Retina	Degeneration	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hyperplasia TGLS = 4-6]		
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-2]		
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108235

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 5-7]

[Leukemia Mononuclear TGLS = 9-21]

[Leukemia Mononuclear TGLS = 7-3]

* Lymph Node, Mesenteric

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 6-5]

* Mammary Gland

Hyperplasia

Minimal

[Hyperplasia TGLS = 1-8]

Mesentery

Mesothelioma Malignant

Note: MALIGNANT MESOTHELIOMA IS PRESENT ON SLIDE 7-1.

* Pancreas

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Adenoma

Leukemia Mononuclear

[Adenoma TGLS = 10-1]

* Prostate

Inflammation

Chronic, Mild

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-6]

* Testes

Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 711

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108236

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Mild
	[Compression TGLS = 8-1]		
* Eye	Retina	Degeneration	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hyperplasia TGLS = 6-6]		
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
		Leukemia Mononuclear	
* Lymph Node, Mesenteric			
	[Leukemia Mononuclear TGLS = 5-5]		
* Nose		Foreign Body	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 7-1]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 78

TRT#: 3

DOSE: 3000 PPM

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 711

HISTO: 108236

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Mild
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
	[Fibrosis TGLS = 4-21]		
	[Leukemia Mononuclear TGLS = 3-6]		
* Stomach, Forestomach		Ulcer	Marked
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7]		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 517

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 108237

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- * Intestine Small, Jejunum

OBSERVATIONS

- | | | | |
|--|----------------|----------------------------|------------------------------|
| * Adrenal Medulla | | Pheochromocytoma Malignant | |
| [Pheochromocytoma Malignant TGLS = 2-21] | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | Centrilobular | Necrosis | Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Pheochromocytoma Malignant | Metastatic (Adrenal Medulla) |
| * Lymph Node, Mesenteric | | Hemorrhage | Minimal |
| | | Hyperplasia | Lymphoid, Moderate |
| * Testes | Interstit Cell | Adenoma | |
| | Germinal Epith | Atrophy | Marked |
| [Adenoma TGLS = 1-7] | | | |

PRIMARY CAUSE OF DEATH

- Adrenal Medulla Pheochromocytoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Leukemia Mononuclear TGLS = 3-6]			
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Preputial Gland		Adenoma	
[Adenoma TGLS = 2-8]			
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108238

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear
* Testes	Bilateral, Interstit Cell	Adenoma
* Thyroid Gland	Follicle	Cyst

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 563

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108239

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Marked
[Compression TGLS = 9-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Cyst	
		Nephropathy	Marked
[Nephropathy TGLS = 6-5]			
* Liver		Basophilic Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Marked
Note: CYTOPLASMIC VACUOLIZATION IS PRESENT ON SLIDES 6 AND 24.			
[Vacuolization Cytoplasmic TGLS = 7-24]			
* Mammary Gland		Hyperplasia	Marked
[Hyperplasia TGLS = 2-8,4-22,5-23,8-25]			
* Pancreas		Cyst	
	Acinus	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-1]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Edema	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 563

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108239

ORGAN AND ACCOUNTABLE SITE STATUS

Epithelium

Hyperplasia

Moderate

Ulcer

Marked

[Edema TGLS = 11-4]

[Hyperplasia TGLS = 11-4]

[Ulcer TGLS = 11-4]

* Testes

Germinal Epith

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108240

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Atrophy

Minimal

* Skin

Hyperkeratosis

Moderate

[Hyperkeratosis TGLS = 1-21]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

* Thymus

Fibrosis

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
		Mixed Cell Focus	
[Basophilic Focus TGLS = 2-6]			
[Hyperplasia TGLS = 2-6]			
[Hypertrophy TGLS = 2-6]			
[Mixed Cell Focus TGLS = 2-6]			
* Lung		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Preputial Gland		Hyperplasia	Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108241

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108242

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Minimal
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
[Basophilic Focus TGLS = 1-6]			
[Clear Cell Focus TGLS = 1-6]			
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108243

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Intestine Small, Duodenum	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Minimal
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIOMA IS ON SLIDE 7-1.			
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Minimal
[Angiectasis TGLS = 4-1]			
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 1-8]			
* Prostate	Epithelium	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108243

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Fibrosis

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Minimal
		Hemorrhage	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
		Mixed Cell Focus	
		[Hepatodiaphragmatic Nodule TGLS = 3-21]	
		[Mixed Cell Focus TGLS = 2-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Moderate
		[Hemorrhage TGLS = 4-22]	
		[Pigmentation TGLS = 4-22]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 86	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 3000 PPM	DISP: Terminal Sacrifice	HISTO: 108244

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108245

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia Inflammation	Minimal Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland [Adenoma TGLS = 3-3]	C Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 723

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108246

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Compression	Mild
		Hemorrhage	Moderate
		Necrosis	Moderate
	[Compression TGLS = 8-1]		
	[Hemorrhage TGLS = 7-1]		
	[Necrosis TGLS = 7-1]		
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
		Leukemia Mononuclear	
* Lung		Alveolar/Bronchiolar Adenoma	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Marked
	Note: MAMMARY GLAND HYPERPLASIA IS PRESENT ON SLIDES 8 AND 21.		
	[Hyperplasia TGLS = 1-21]		
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 723

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108246

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 9-1]

* Prostate

Inflammation
Leukemia Mononuclear

Chronic, Moderate

[Inflammation TGLS = 3-7-1]

[Leukemia Mononuclear TGLS = 3-7-1]

* Skin

Subcut Tiss

Fibroma

[Fibroma TGLS = 2-22]

* Spleen

Infiltration Cellular
Leukemia Mononuclear
Metaplasia

Mixed Cell, Moderate

Lipocyte, Moderate

Note: LIPOCYTE METAPLASIA IS ON SLIDE 23.

[Infiltration Cellular TGLS = 5-23,6-6]

[Leukemia Mononuclear TGLS = 6-6]

* Stomach, Forestomach

Edema

Mild

* Testes

Germinal Epith

Atrophy

Moderate

Interstit Cell

Hyperplasia

Mild

* Thymus

Cyst

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Mixed Cell Focus	
	[Hepatodiaphragmatic Nodule TGLS = 4-22]		
	[Mixed Cell Focus TGLS = 3-6]		
* Lung	Alveolar Epith	Hyperplasia	Mild
* Pancreas		Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-21]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7]		
* Thymus	Epithel Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108247

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108248

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hemorrhage	Mild
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
		Mixed Cell Focus	
[Hemorrhage TGLS = 3-6]			
[Mixed Cell Focus TGLS = 3-6]			
* Pancreas		Atrophy	Mild
* Preputial Gland		Adenoma	
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Inflammation	Chronic, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Infiltration Cellular	Mixed Cell, Moderate
		Mixed Cell Focus	
	[Hepatodiaphragmatic Nodule TGLS = 2-22]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
		Infiltration Cellular	Mixed Cell, Marked
* Lymph Node, Mesenteric			
	[Infiltration Cellular TGLS = 4-5]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-21]		
* Pancreas		Atrophy	Mild
* Spleen		Infiltration Cellular	Mixed Cell, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108249

ORGAN AND ACCOUNTABLE SITE STATUS

[Infiltration Cellular TGLS = 5-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Brain		Compression	Marked
[Compression TGLS = 6-1]			
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
* Liver	Hepatocyte	Basophilic Focus	
		Degeneration	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
[Hyperplasia TGLS = 1-8]			
* Pancreas		Atrophy	Moderate
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			
* Prostate		Inflammation	Chronic, Mild
[Inflammation TGLS = 3-7-1]			
* Testes	Germinal Epith	Atrophy	Mild
* Thyroid Gland	C Cell	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108250

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 5-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 663

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Skin	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Compression	Marked
		Hemorrhage	Minimal
[Compression TGLS = 6-1]			
* Epididymis		Inflammation	Acute, Moderate
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Vacuolization Cytoplasmic TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Moderate
[Hemorrhage TGLS = 5-3]			
[Hyperplasia TGLS = 5-3]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Marked
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 663

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108251

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Cyst	
* Prostate		Inflammation	Chronic, Moderate
[Inflammation TGLS = 2-7-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Edema	Marked
	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked
[Ulcer TGLS = 8-4]			
* Stomach, Glandular		Ulcer	Mild
* Testes	Germinal Epith	Atrophy	Moderate
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pancreas		Atrophy	Mild
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin		Cyst Epithelial Inclusion	
		Keratoacanthoma	
		[Cyst Epithelial Inclusion TGLS = 3-21]	
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2-6]	
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108252

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 437

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108253

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Nose	* Parathyroid Gland
* Preputial Gland	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Salivary Glands
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OBSERVATIONS

* Brain		Compression	Marked
		Necrosis	Mild
[Compression TGLS = 2-1]			
* Kidney		Nephropathy	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
Note: "CYTOPLASMIC ALTERATION" IS DEPLETION OF ZYMOGEN GRANULES FROM ACINAR CELLS.			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-1]			
* Prostate		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 666

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108254

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Mild
* Heart		Leukemia Mononuclear	
* Kidney	Renal Tubule	Leukemia Mononuclear	
		Necrosis	Moderate
		Nephropathy	Minimal
[Necrosis TGLS = 7-26]			
* Liver		Hemorrhage	Mild
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: LIVER HEMORRHAGE IS PRIMARILY ON SLIDE 23.			
[Hepatodiaphragmatic Nodule TGLS = 9-22]			
[Hyperplasia TGLS = 8-6]			
[Leukemia Mononuclear TGLS = 8-6,10-23]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 666

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108254

ORGAN AND ACCOUNTABLE SITE STATUS

	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 12-24]		
	[Leukemia Mononuclear TGLS = 5-7]		
	[Leukemia Mononuclear TGLS = 11-3]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-5]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 2-21]		
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLS = 13-1]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-25]		
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-7]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108255

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Pancreas	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Adrenal Medulla	* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Mild
		Hemorrhage	Mild
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Mixed Cell Focus	
[Clear Cell Focus TGLS = 3-6]			
[Hemorrhage TGLS = 3-6]			
[Mixed Cell Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 2-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108255

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108256

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	Mesentery	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Epididymis		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Mild
		Hepatodiaphragmatic Nodule	
	Hepatocyte	Hypertrophy	Mild
		Mixed Cell Focus	
[Basophilic Focus TGLS = 3-6]			
[Clear Cell Focus TGLS = 3-6]			
[Hepatodiaphragmatic Nodule TGLS = 4-22]			
[Mixed Cell Focus TGLS = 3-6]			
* Lung		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Skin		Cyst Epithelial Inclusion	
		Keratoacanthoma	
[Cyst Epithelial Inclusion TGLS = 5-23]			
[Keratoacanthoma TGLS = 5-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108256

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 509

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108257

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Granular Cell Tumor Malignant Necrosis	Moderate
	[Granular Cell Tumor Malignant TGLS = 1-1]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Lung		Foreign Body Inflammation	Chronic, Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- Brain Granular Cell Tumor Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 649

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108258

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Mild
* Brain		Leukemia Mononuclear	
* Eye	Retina	Degeneration	Moderate
* Heart		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
[Hyperplasia TGLS = 5-6]			
[Leukemia Mononuclear TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-2]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-7]			
[Leukemia Mononuclear TGLS = 8-21]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 649

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108258

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 7-5]			
* Mammary Gland		Hyperplasia	Minimal
[Hyperplasia TGLS = 1-8]			
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Intermed	Cyst	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-1]			
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Mild
		Ulcer	Marked
[Ulcer TGLS = 11-4]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thymus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 101

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108259

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
[Adenoma TGLS = 4-10]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Leukemia Mononuclear TGLS = 6-6]			
[Mixed Cell Focus TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-5]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6,3-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 101

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108259

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 102

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108260

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Prostate | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|-------------|--|----------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Bone Marrow | | Hyperplasia | Moderate |
| | | Infiltration Cellular | Histiocyte, Moderate |
| * Epididymis | | Inflammation | Chronic, Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Marked |
| | | [Basophilic Focus TGLS = 3-6] | |
| | | [Hepatodiaphragmatic Nodule TGLS = 7-21] | |
| | | [Hyperplasia TGLS = 3-6] | |
| | | [Infiltration Cellular TGLS = 3-6] | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic, Minimal |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | Pancreatic | Hemorrhage | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 102

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108260

ORGAN AND ACCOUNTABLE SITE STATUS

	Mediastinal	Hyperplasia	Lymphoid, Marked
[Ectasia TGLS = 8-3]			
[Hemorrhage TGLS = 4-7]			
[Hyperplasia TGLS = 8-3]			
* Pancreas		Atrophy	Mild
		Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Minimal
* Spleen		Hyperplasia	Lymphoid, Moderate
		Infiltration Cellular	Mixed Cell, Marked
[Hyperplasia TGLS = 2+5-6,22]			
[Infiltration Cellular TGLS = 5-22]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 104

TRT#: 5

SEX: Male

DAY ON TEST: 316

DOSE: 9000 PPM

DISP: Natural Death

HISTO: 108262

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Kidney	* Lung	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Liver		Leukemia Mononuclear	
Lymph Node	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-25]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Spleen		Hemorrhage	Moderate
[Hemorrhage TGLS = 3-22]			
[Leukemia Mononuclear TGLS = 1-21,2-21,2-22]			
* Testes	Germinal Epith	Atrophy	Mild
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-23]			
Tissue NOS		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-24]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 724

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108263

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Necrosis	Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear Necrosis	Moderate
	[Leukemia Mononuclear TGLS = 11-1]		
* Heart		Cardiomyopathy Leukemia Mononuclear	Mild
* Islets, Pancreatic		Adenoma	
* Kidney	Renal Tubule	Adenoma Leukemia Mononuclear	
	Renal Tubule	Necrosis Nephropathy	Marked Minimal
	[Leukemia Mononuclear TGLS = 7-5] [Necrosis TGLS = 7-5]		
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Minimal
	Kupffer Cell	Pigmentation	Mild
	[Hyperplasia TGLS = 4-6] [Leukemia Mononuclear TGLS = 4-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 105

TRT#: 5

DOSE: 9000 PPM

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 724

HISTO: 108263

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-7]		
	[Leukemia Mononuclear TGLS = 10-3]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-5]		
* Pancreas		Cyst	
		Leukemia Mononuclear	
		Necrosis	Moderate
* Pituitary Gland		Leukemia Mononuclear	
* Prostate		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
		Necrosis	Marked
	[Leukemia Mononuclear TGLS = 2-6]		
	[Necrosis TGLS = 6-21]		
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Moderate
		Perforation	
	[Perforation TGLS = 9-4]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-7]		
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108264

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
	[Basophilic Focus TGLS = 2-6]		
	[Eosinophilic Focus TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 107

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108265

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
	[Basophilic Focus TGLS = 3-6]		
	[Eosinophilic Focus TGLS = 3-6]		
	[Hypertrophy TGLS = 3-6]		
* Lung		Foreign Body	
		Inflammation	Chronic, Mild
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	[Adenoma TGLS = 4-1]		
* Preputial Gland		Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
* Salivary Glands		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014
Time Report Requested: 07:44:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 107

TRT#: 5
DOSE: 9000 PPM

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 730
HISTO: 108265

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin

Epidermis

Hyperkeratosis
Hyperplasia
Inflammation

Marked
Moderate
Chronic, Mild

[Hyperkeratosis TGLS = 1-21]

[Hyperplasia TGLS = 1-21]

[Inflammation TGLS = 1-21]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108266

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 4-6]			
[Eosinophilic Focus TGLS = 4-6]			
[Hypertrophy TGLS = 4-6]			
[Leukemia Mononuclear TGLS = 4-6]			
* Lymph Node, Mesenteric		Ectasia	Mild
		Hemorrhage	Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-21]			
* Pancreas		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108266

ORGAN AND ACCOUNTABLE SITE STATUS

Acinus

Hyperplasia

Focal, Mild

Note: FOCAL HYPERPLASIA IS PRESENT ON SLIDE 4.

* Spleen

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 109

TRT#: 5

DOSE: 9000 PPM

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 696

HISTO: 108267

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-10]			
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Infarct	Mild
		Leukemia Mononuclear	
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Mild
[Infarct TGLS = 8-5]			
[Leukemia Mononuclear TGLS = 8-5]			
[Pigmentation TGLS = 8-5]			
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 9-6]			
[Leukemia Mononuclear TGLS = 9-6]			
* Lung		Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
[Infiltration Cellular TGLS = 13-2]			
[Leukemia Mononuclear TGLS = 13-2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 696

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108267

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-22]			
[Leukemia Mononuclear TGLS = 12-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-5]			
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
Note: CYST INVOLVES RATHKES CLEFT.			
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin		Cyst Epithelial Inclusion	
[Cyst Epithelial Inclusion TGLS = 1-21]			
* Spleen		Leukemia Mononuclear	
		Necrosis	Marked
[Leukemia Mononuclear TGLS = 6-23]			
[Necrosis TGLS = 6-23]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-3]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 110

TRT#: 5

SEX: Male

DAY ON TEST: 594

DOSE: 9000 PPM

DISP: Natural Death

HISTO: 108268

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Esophagus
* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Jejunum	* Kidney	* Mammary Gland	* Nose
* Parathyroid Gland	Peripheral Nerve	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Pancreas
* Pituitary Gland	* Spleen		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Brain		Hemorrhage	Marked
[Hemorrhage TGLS = 9-1]			
* Epididymis		Inflammation	Chronic, Mild
* Harderian Gland		Hyperplasia	Focal, Minimal
* Heart		Histiocytic Sarcoma	
* Liver		Histiocytic Sarcoma	
		Necrosis	Focal, Moderate
[Histiocytic Sarcoma TGLS = 5-6,6-6]			
[Necrosis TGLS = 6-6]			
* Lung		Hemorrhage	Moderate
		Histiocytic Sarcoma	
[Hemorrhage TGLS = 7-2]			
[Histiocytic Sarcoma TGLS = 7-2]			
Lymph Node	Pancreatic	Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 2-7]			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Prostate		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 111

TRT#: 5

SEX: Male

DAY ON TEST: 556

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108269

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
Note: MULTIFOCAL ARTIFACT IN LIVER (CLUSTERS OF COLORLESS SPICULES 20-40 MICRONS LONG). [Eosinophilic Focus TGLS = 3-22]			
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Skin		Ulcer	Marked
[Ulcer TGLS = 1-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

- Skin Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 431

DOSE: 9000 PPM

DISP: Natural Death

HISTO: 108270

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---|----------------|-----------------------|----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 5-1] | | | |
| * Heart | | Cardiomyopathy | Minimal |
| | | Leukemia Mononuclear | |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| [Hyperplasia TGLS = 3-6] | | | |
| [Leukemia Mononuclear TGLS = 2-6,3-6] | | | |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 1-21] | | | |
| * Stomach, Glandular | | Ulcer | Mild |
| [Ulcer TGLS = 4-22] | | | |
| * Testes | Interstit Cell | Adenoma | |
| | Interstit Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 431

DOSE: 9000 PPM

DISP: Natural Death

HISTO: 108270

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 644

DOSE: 9000 PPM

DISP: Natural Death

HISTO: 108271

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-1]			
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Carcinoma	
[Carcinoma TGLS = 7-22]			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Angiectasis	Marked
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Angiectasis TGLS = 9-23]			
[Hepatodiaphragmatic Nodule TGLS = 4-21]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-2]			
Lymph Node	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 644

DOSE: 9000 PPM

DISP: Natural Death

HISTO: 108271

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-7]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5]			
* Pancreas		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Forestomach	Epithelium	Edema	Moderate
		Hyperplasia	Mild
		Ulcer	Marked
[Ulcer TGLS = 10-4]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thymus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	
CONTRIBUTORY CAUSE OF DEATH	- Intestine Small;Jejunum	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108272

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	Peripheral Nerve	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Mild
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
		[Hyperplasia TGLS = 8-6]	
		[Leukemia Mononuclear TGLS = 8-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 5-7]	
		[Leukemia Mononuclear TGLS = 9-3]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 7-5]	
* Mammary Gland		Fibroadenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014
Time Report Requested: 07:44:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 114	TRT#: 5	SEX: Male	DAY ON TEST: 730
	DOSE: 9000 PPM	DISP: Terminal Sacrifice	HISTO: 108272

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1-21,2-22]

* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
		Leukemia Mononuclear	
* Prostate		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
Note: TGL 10 IS A CYST INVOLVING SPLENIC CAPSULE; NOT TABULATED AS MORPHOLOGY UNAVAILABLE ON TDMS.			

[Leukemia Mononuclear TGLS = 6-6]

* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 696

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108273

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[Hyperplasia TGLS = 4-6]	
		[Leukemia Mononuclear TGLS = 4-6]	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 5-5]	
* Pancreas		Atrophy	Mild
		Cyst	
		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibrosarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 696

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108273

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosarcoma TGLS = 6-21]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

* Urin Bladder

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 116

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108274

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Thyroid Gland

Follicle

Cyst

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108275

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Mild
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
		Mixed Cell Focus	
	[Hypertrophy TGLS = 4-6]		
	[Mixed Cell Focus TGLS = 4-6]		
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Ectasia	Minimal
		Hyperplasia	Lymphoid, Mild
	[Ectasia TGLS = 3-5]		
	[Hyperplasia TGLS = 3-5]		
* Pancreas		Cyst	
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108275

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 118

TRT#: 5

SEX: Male

DAY ON TEST: 709

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108276

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland	* Prostate
* Seminal Vesicle	Skeletal Muscle	* Skin	Spinal Cord
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		[Hyperplasia TGLS = 6-6]	
		[Leukemia Mononuclear TGLS = 6-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 5-7]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Mesothelioma Malignant	
		Note: MALIGNANT MESOTHELIOMA IS ON SLIDES 7, 7-1, AND 21.	
		[Mesothelioma Malignant TGLS = 3-21]	
* Pancreas		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014
Time Report Requested: 07:44:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 118	TRT#: 5	SEX: Male	DAY ON TEST: 709
	DOSE: 9000 PPM	DISP: Moribund Sacrifice	HISTO: 108276

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 4-6]		Leukemia Mononuclear	
* Stomach, Forestomach	Epithelium	Hyperplasia Leukemia Mononuclear	Moderate
* Stomach, Glandular		Erosion Leukemia Mononuclear	Moderate
* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Mesentery Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108277

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Moderate
* Lung		Inflammation	Chronic, Minimal
Mesentery		Hemorrhage	Moderate
	Fat	Necrosis	Marked
		[Hemorrhage TGLS = 2-21]	
		[Necrosis TGLS = 2-21]	
* Pancreas		Atrophy	Moderate
		Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 1-7]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 120

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108278

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Basophilic Focus	
		Degeneration	Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
		[Basophilic Focus TGLS = 3-6]	
		[Eosinophilic Focus TGLS = 3-6]	
		[Hypertrophy TGLS = 3-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
Mesentery		Hemorrhage	Mild
	Fat	Necrosis	Mild
		[Necrosis TGLS = 1-21]	
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 120

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108278

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-1]

* Prostate

Adenoma

Inflammation

Chronic, Mild

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108279

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Hemorrhage	Minimal
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Basophilic Focus	
		Degeneration	Mild
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
[Basophilic Focus TGLS = 2-6]			
[Eosinophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 3-21]			
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108279

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 534

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108280

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Schwannoma Malignant	
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-2]		
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Atrophy	Mild
		Cyst	
* Prostate		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 534

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108280

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 3-21]

[Leukemia Mononuclear TGLS = 3-21]

* Stomach, Glandular

Erosion

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108281

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Epididymis		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Moderate
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Marked
		Infiltration Cellular	Mixed Cell, Minimal
		Leukemia Mononuclear	
[Eosinophilic Focus TGLS = 4-6]			
[Hepatodiaphragmatic Nodule TGLS = 5-23]			
[Hypertrophy TGLS = 4-6]			
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Angiectasis	Moderate
	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108281

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLS = 3-22]

[Necrosis TGLS = 3-22]

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Hyperplasia

Focal, Mild

* Preputial Gland

Cyst

* Prostate

Epithelium

Hyperplasia

Mild

Inflammation

Chronic, Minimal

* Skin

Subcut Tiss

Fibrosarcoma

[Fibrosarcoma TGLS = 1-21]

* Spleen

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108282

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
		Leukemia Mononuclear	
[Eosinophilic Focus TGLS = 4-6]			
[Hyperplasia TGLS = 4-6]			
[Hypertrophy TGLS = 4-6]			
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 1-21]			
[Hyperplasia TGLS = 2-8]			
* Pancreas		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108282

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland
[Adenoma TGLS = 5-1]

Pars Distalis

Cyst
Adenoma

* Spleen
* Testes
[Adenoma TGLS = 3-7]

Bilateral, Interstit Cell

Leukemia Mononuclear
Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108283

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Moderate
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Moderate
[Basophilic Focus TGLS = 3-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Nose		Foreign Body	
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
[Adenoma TGLS = 5-1]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108283

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-7]

* Thyroid Gland

C Cell

Adenoma

[Adenoma TGLS = 4-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108284

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Hyperplasia Vacuolization Cytoplasmic Pheochromocytoma Malignant	Moderate Focal, Minimal Diffuse, Mild
* Adrenal Medulla [Pheochromocytoma Malignant TGLS = 4-10]			
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic [Carcinoma TGLS = 3-22]		Carcinoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus Eosinophilic Focus	
	Bile Duct Hepatocyte	Hyperplasia Hypertrophy	Minimal Minimal
[Basophilic Focus TGLS = 6-6] [Eosinophilic Focus TGLS = 6-6] [Hyperplasia TGLS = 6-6] [Hypertrophy TGLS = 6-6]			
* Lung Lymph Node	Mediastinal Mediastinal	Infiltration Cellular Hemorrhage Hyperplasia	Histiocyte, Minimal Mild Lymphoid, Moderate
[Hemorrhage TGLS = 7-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108284

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 7-3]			
* Mammary Gland		Hyperplasia	Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
[Inflammation TGLS = 2-7-1]			
* Skin		Keratoacanthoma	
	Subcut Tiss	Lipoma	
[Keratoacanthoma TGLS = 1-21]			
[Lipoma TGLS = 9-23]			
* Stomach, Glandular	Epithelium	Hyperplasia	Mild
[Hyperplasia TGLS = 10-24]			
* Testes	Germinal Epith	Atrophy	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108285

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 2-10]		
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 3-6]		
	[Hypertrophy TGLS = 3-6]		
	[Mixed Cell Focus TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Ectasia	Mild
		Hyperplasia	Lymphoid, Mild
Mesentery	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108285

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 4-21,5-22]

* Pancreas		Atrophy	Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 703

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108286

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
		Schwannoma Malignant	
* Islets, Pancreatic		Adenoma	
* Kidney		Infarct	Marked
	Renal Tubule	Necrosis	Marked
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
	[Infarct TGLS = 4-5]		
* Liver		Degeneration	Cystic, Moderate
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hyperplasia TGLS = 3-6]		
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 703

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108286

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Respirat Epith	Hyperplasia	Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Leukemia Mononuclear	
		Necrosis	Marked
	[Leukemia Mononuclear TGLS = 1-6]		
	[Necrosis TGLS = 1-6]		
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 563

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108287

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Hypertrophy	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-6]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 3-22]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-1]			
* Skin	Subcut Tiss	Lipoma	
[Lipoma TGLS = 1-21]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Stomach, Glandular		Erosion	Minimal
* Testes	Germinal Epith	Atrophy	Mild
	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 563

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108287

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Lipoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 701

DOSE: 9000 PPM

DISP: Natural Death

HISTO: 108288

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 7-10]			
* Brain		Compression	Moderate
[Compression TGLS = 9-1]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Degeneration	Minimal
	Bile Duct	Eosinophilic Focus	
[Eosinophilic Focus TGLS = 8-6]		Hyperplasia	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
[Fibroadenoma TGLS = 3-22]			
[Hyperplasia TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-1]			
* Preputial Gland		Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014
Time Report Requested: 07:44:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 130	TRT#: 5	SEX: Male	DAY ON TEST: 701
	DOSE: 9000 PPM	DISP: Natural Death	HISTO: 108288

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-8]		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
[Inflammation TGLS = 6-7-1]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 5-7]			

PRIMARY CAUSE OF DEATH	- Adrenal Medulla Pheochromocytoma Malignant
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108289

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Mild
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-6]	Vacuolization Cytoplasmic	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Pancreatic	Ectasia	Moderate
	Pancreatic	Leukemia Mononuclear	
	[Ectasia TGLS = 3-7]		
	[Leukemia Mononuclear TGLS = 3-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Accessory Spleen	
	[Accessory Spleen TGLS = 5-21]		
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 131

TRT#: 5

DOSE: 9000 PPM

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 108289

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 7-1]		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 8-22]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 635

DOSE: 9000 PPM

DISP: Natural Death

HISTO: 108290

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Bone Marrow		Histiocytic Sarcoma	
* Eye	Retina	Hyperplasia	Moderate
		Degeneration	Mild
* Heart		Histiocytic Sarcoma	
		Histiocytic Sarcoma	
		Thrombosis	Marked
		[Thrombosis TGLS = 6-12]	
* Intestine Large, Colon		Histiocytic Sarcoma	
		[Histiocytic Sarcoma TGLS = 8-22]	
* Liver		Angiectasis	Marked
		Degeneration	Cystic, Mild
		Histiocytic Sarcoma	
	Bile Duct	Hyperplasia	Mild
		[Angiectasis TGLS = 5-21]	
		[Histiocytic Sarcoma TGLS = 3-6]	
* Lung		Histiocytic Sarcoma	
		[Histiocytic Sarcoma TGLS = 7-2]	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 635

DOSE: 9000 PPM

DISP: Natural Death

HISTO: 108290

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy Cyst	Minimal
* Spleen		Hematopoietic Cell Proliferation Histiocytic Sarcoma	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
Note: Hyperplastic lesion is at the Limiting Ridge. [Hyperplasia TGLS = 9-23]			
* Stomach, Glandular		Histiocytic Sarcoma Ulcer	Mild
Note: Ulcer and Histiocytic Sarcoma are on Slide 23.			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thymus		Histiocytic Sarcoma	

PRIMARY CAUSE OF DEATH

- Liver Histiocytic Sarcoma

CONTRIBUTORY CAUSE OF DEATH

- Heart Thrombosis;Intestine Large;Colon Histiocytic Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108291

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
		Leukemia Mononuclear	
[Eosinophilic Focus TGLS = 3-6]			
[Hyperplasia TGLS = 3-6]			
[Hypertrophy TGLS = 3-6]			
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIOMA IS PRESENT ON SLIDES 7, 7-1, 21, AND 22.			
[Mesothelioma Malignant TGLS = 2-21,5-22]			
* Pituitary Gland	Pars Distalis	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108291

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 134

TRT#: 5

DOSE: 9000 PPM

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 649

HISTO: 108292

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
	[Cardiomyopathy TGLS = 8-12]		
* Intestine Large, Cecum		Edema	Mild
* Kidney		Infarct	Minimal
		Leukemia Mononuclear	
		Nephropathy	Mild
	[Infarct TGLS = 11-5]		
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Kupffer Cell	Pigmentation	Mild
	[Hepatodiaphragmatic Nodule TGLS = 6-21]		
	[Hyperplasia TGLS = 5-6]		
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-2]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 649

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108292

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mediastinal	Ectasia	Moderate
	Deep Cervical	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	[Ectasia TGLS = 7-3]		
	[Leukemia Mononuclear TGLS = 10-22]		
	[Leukemia Mononuclear TGLS = 7-3]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-23]		
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
* Prostate		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		
* Stomach, Forestomach		Inflammation	Chronic Active, Marked
		Ulcer	Moderate
	[Inflammation TGLS = 4-4]		
	[Ulcer TGLS = 4-4]		
* Thymus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 663

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108293

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

INSUFFICIENT TISSUE

- * Intestine Large, Rectum

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------------|---------------------|
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Hepatocellular Adenoma | |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Marked |
| | | Leukemia Mononuclear | |
| | [Hepatodiaphragmatic Nodule TGLS = 6-22] | | |
| | [Hyperplasia TGLS = 5-6] | | |
| | [Leukemia Mononuclear TGLS = 5-6] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 2-7] | | |
| * Spleen | | Fibrosis | Moderate |
| | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 663

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108293

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 4-21]

[Leukemia Mononuclear TGLS = 3-6]

* Testes

Bilateral, Interstit Cell

Adenoma

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108294

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Mild
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 5-6]			
[Hypertrophy TGLS = 5-6]			
[Mixed Cell Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-2]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-21]			
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLS = 3-22]			
* Pancreas		Cyst	
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108294

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108295

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Degeneration	Mild
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Mixed Cell Focus	
		[Hypertrophy TGLS = 2-6]	
		[Mixed Cell Focus TGLS = 2-6]	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Adenoma	
* Skin		Keratoacanthoma	
		[Keratoacanthoma TGLS = 1-21]	
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108295

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108296

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 2-6]			
[Eosinophilic Focus TGLS = 2-6]			
[Hypertrophy TGLS = 2-6]			
* Pancreas		Atrophy	Moderate
* Preputial Gland		Cyst	
		Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108296

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108297

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Mild
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
[Basophilic Focus TGLS = 2-6]			
[Clear Cell Focus TGLS = 2-6]			
[Hypertrophy TGLS = 2-6]			
* Lung		Inflammation	Chronic, Mild
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Mild
		Cyst	
	Acinus	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108297

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland

Adenoma

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108298

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Moderate
Note: FOCUS OF GANGLION CELLS IN ONE ADRENAL MEDULLA; MORPHOLOGY UNAVAILABLE ON TDMS.			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Mild
	Bile Duct	Eosinophilic Focus	
	Hepatocyte	Hyperplasia	Minimal
		Hypertrophy	Minimal
		Mixed Cell Focus	
[Eosinophilic Focus TGLS = 2-6]			
[Hypertrophy TGLS = 2-6]			
[Mixed Cell Focus TGLS = 2-6]			
* Lung		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108298

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108299

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Moderate
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Leukemia Mononuclear	
		[Basophilic Focus TGLS = 3-6]	
		[Eosinophilic Focus TGLS = 3-6]	
		[Hypertrophy TGLS = 3-6]	
		[Leukemia Mononuclear TGLS = 3-6]	
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Prostate		Inflammation	Chronic, Moderate
* Skin		Cyst Epithelial Inclusion	
		Keratoacanthoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108299

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst Epithelial Inclusion TGLS = 4-22]

[Keratoacanthoma TGLS = 1-21]

* Spleen

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 690

DOSE: 9000 PPM

DISP: Natural Death

HISTO: 108300

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Nose	* Pancreas	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Compression	Moderate
	[Compression TGLS = 4-1]		
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Minimal
	[Basophilic Focus TGLS = 1-6]		
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
	[Hemorrhage TGLS = 2-2]		
* Lymph Node, Mesenteric		Ectasia	Mild
		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 690

DOSE: 9000 PPM

DISP: Natural Death

HISTO: 108300

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland
[Adenoma TGLS = 3-1]

Pars Distalis

Adenoma

* Prostate

Inflammation

Chronic, Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108301

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	Mesentery	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Brain		Hydrocephalus	Mild
* Epididymis		Inflammation	Acute, Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Mild
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	

- [Basophilic Focus TGLS = 4-6]
- [Clear Cell Focus TGLS = 4-6]
- [Eosinophilic Focus TGLS = 4-6]
- [Hepatodiaphragmatic Nodule TGLS = 5-22]
- [Hypertrophy TGLS = 4-6]
- [Mixed Cell Focus TGLS = 4-6]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108301

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Edema	Mild
		Hemorrhage	Mild
Note: LUNG HEMORRHAGE AND EDEMA ARE PRIMARILY PERIVASCULAR.			
		[Edema TGLS = 6-2]	
		[Hemorrhage TGLS = 6-2]	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Minimal
* Skin		Hyperkeratosis	Moderate
	Epidermis	Hyperplasia	Moderate
		[Hyperkeratosis TGLS = 1-23]	
		[Hyperplasia TGLS = 1-23]	
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
		[Adenoma TGLS = 2-7]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108302

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Moderate
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pancreas		Atrophy	Minimal
		Cyst	
* Preputial Gland		Cyst	
* Prostate		Adenoma	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108302

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 618

DOSE: 9000 PPM

DISP: Natural Death

HISTO: 108303

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Lung
* Mammary Gland	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Brain		Oligodendroglioma Malignant	
	[Oligodendroglioma Malignant TGLS = 5-1]		
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Minimal
	Hepatocyte	Hypertrophy	Mild
		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Hypertrophy TGLS = 2-6]		
	[Mixed Cell Focus TGLS = 2-6]		
	[Vacuolization Cytoplasmic TGLS = 2-6]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	[Angiectasis TGLS = 4-1]		
* Preputial Gland		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014
Time Report Requested: 07:44:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 145

TRT#: 5
DOSE: 9000 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST: 618
HISTO: 108303

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes
[Adenoma TGLS = 1-7]

Bilateral, Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Brain Oligodendroglioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108304

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Mild
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
		Mixed Cell Focus	
[Hypertrophy TGLS = 2-6]			
[Mixed Cell Focus TGLS = 2-6]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Prostate		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 688

DOSE: 9000 PPM

DISP: Natural Death

HISTO: 108305

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Leukemia Mononuclear	
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 6-3]	
		[Leukemia Mononuclear TGLS = 4-22]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 5-5]	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
		[Adenoma TGLS = 7-1]	
* Prostate		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 688

DOSE: 9000 PPM

DISP: Natural Death

HISTO: 108305

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Hyperkeratosis	Moderate
	Epidermis	Hyperplasia	Mild
	[Hyperkeratosis TGLS = 8-23]		
	[Hyperplasia TGLS = 8-23]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-21]		
* Testes	Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108306

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperkeratosis TGLS = 1-21]

[Hyperplasia TGLS = 1-21]

[Inflammation TGLS = 1-21]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108307

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Intestine Large, Rectum	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Mild
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 4-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Cyst	
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108307

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 659

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108308

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone		Osteosarcoma	
[Osteosarcoma TGLS = 3-23]			
* Brain		Compression	Moderate
[Compression TGLS = 4-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Pancreas		Atrophy	Mild
* Salivary Glands		Atrophy	Moderate
		Infiltration Cellular	Polymorphnuclr, Mild
* Skin		Basal Cell Adenoma	
[Basal Cell Adenoma TGLS = 1-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

- Bone Osteosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 151

TRT#: 7

SEX: Male

DAY ON TEST: 635

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108309

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Mild
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Moderate
		Mixed Cell Focus	
	[Mixed Cell Focus TGLS = 3-6]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Skin		Basal Cell Carcinoma	
	[Basal Cell Carcinoma TGLS = 2-21]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

- Skin Basal Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 152

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108310

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Cardiomyopathy	Mild
		Adenoma	
* Intestine Small, Jejunum			
[Adenoma TGLS = 11-28]			
* Kidney		Nephropathy	Moderate
* Liver	Hepatocyte	Degeneration	Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
[Degeneration TGLS = 3-6]			
* Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Histiocyte, Moderate
Note: ALVEOLAR/BRONCHIOLAR CARCINOMAS ARE ON SLIDES 2, 21, 22, 23, AND 24.			
[Alveolar/Bronchiolar Carcinoma TGLS = 4-21,5-22,6-23,7-24]			
Lymph Node	Inguinal	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
[Alveolar/Bronchiolar Carcinoma TGLS = 9-25]			
[Alveolar/Bronchiolar Carcinoma TGLS = 10-27]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 152

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108310

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Hyperkeratosis	Moderate
[Hyperkeratosis TGLS = 1-26]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 8-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108311

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Cyst	
		Nephropathy	Mild
* Liver	Hepatocyte	Degeneration	Moderate
	Bile Duct	Eosinophilic Focus	
	Hepatocyte	Hyperplasia	Minimal
		Hypertrophy	Marked
	[Hypertrophy TGLS = 3-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	[Angiectasis TGLS = 4-1]		
* Prostate		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108311

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108312

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Esophagus	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Granuloma Sperm	Mild
* Heart		Carcinoma	Metastatic (Uncertain Primary Site)
		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-22]		
	[Leukemia Mononuclear TGLS = 7-3]		
	[Leukemia Mononuclear TGLS = 5-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108312

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 6-5]			
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Cyst	
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Mild
* Skin		Basal Cell Carcinoma	
[Basal Cell Carcinoma TGLS = 1-21]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 155

TRT#: 7

SEX: Male

DAY ON TEST: 684

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108313

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|---------------|--|--------------|
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| | | Myelofibrosis | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Degeneration | Cystic, Mild |
| | Bile Duct | Hepatocellular Adenoma | |
| | | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | | [Hepatocellular Adenoma TGLS = 6-21] | |
| | | [Hyperplasia TGLS = 5-6] | |
| | | [Leukemia Mononuclear TGLS = 5-6] | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 4-5] | |
| * Pancreas | | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Intermed | Cyst | |
| | Pars Distalis | Hyperplasia | Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 155

TRT#: 7

SEX: Male

DAY ON TEST: 684

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108313

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 8-1]

* Preputial Gland

Inflammation

Chronic, Mild

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 156

TRT#: 7

SEX: Male

DAY ON TEST: 208

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108314

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Hydronephrosis	Mild
	Renal Tubule	Mineralization	Mild
	Renal Tubule	Necrosis	Minimal
[Hydronephrosis TGLS = 2-5]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
Peripheral Nerve		Schwannoma Malignant	
[Schwannoma Malignant TGLS = 4-22]			
* Prostate		Angiectasis	Moderate
		Inflammation	Acute, Moderate
Note: THE CHANGE TABULATED AS "ANGIECTASIS" IS ACTUALLY HEMORRHAGE IN ACINI AND INTERSTITIUM; MORPHOLOGY UNAVAILABLE ON TDMS.			
[Angiectasis TGLS = 3-7-1]			
[Inflammation TGLS = 3-7-1]			
Skeletal Muscle		Atrophy	Minimal
[Atrophy TGLS = 6-21]			
* Thymus		Atrophy	Mild
* Urinary Bladder		Hemorrhage	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 156

TRT#: 7

SEX: Male

DAY ON TEST: 208

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108314

ORGAN AND ACCOUNTABLE SITE STATUS

Inflammation

Acute, Moderate

Note: URINARY BLADDER IS MARKEDLY DILATED (TGL 1-23); MORPHOLOGY UNAVAILABLE ON TDMS.

[Hemorrhage TGLS = 5-23]

[Inflammation TGLS = 5-23]

PRIMARY CAUSE OF DEATH

- Peripheral Nerve Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 157

TRT#: 7

SEX: Male

DAY ON TEST: 612

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108315

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Intestine Small, Duodenum		Carcinoma	
[Carcinoma TGLS = 6-21]			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hepatocellular Adenoma TGLS = 4-6]			
[Leukemia Mononuclear TGLS = 5-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 157

TRT#: 7

SEX: Male

DAY ON TEST: 612

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108315

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 2-6]

[Leukemia Mononuclear TGLS = 2-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-7]

* Thyroid Gland

C Cell

Adenoma

Follicle

Cyst

Ultimobranchial Cyst

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Intestine Small;Duodenum Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 158

TRT#: 7

SEX: Male

DAY ON TEST: 716

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108316

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	Mesentery	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Eye		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hepatocellular Adenoma TGLS = 5-22]		
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-2]		
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 158

TRT#: 7

SEX: Male

DAY ON TEST: 716

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108316

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 9-5]

* Pancreas Atrophy Mild

Leukemia Mononuclear

* Pituitary Gland Pars Distalis

Cyst

Pars Distalis

Hyperplasia Focal, Moderate

Leukemia Mononuclear

[Hyperplasia TGLS = 8-1]

* Prostate Inflammation Chronic, Mild

* Spleen Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-6]

* Testes Germinal Epith Atrophy Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 159

TRT#: 7

SEX: Male

DAY ON TEST: 450

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108317

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Hypertrophy	Marked
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Skin	Sebaceous GI	Adenoma	
	[Adenoma TGLS = 2-21]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	Follicle	Cyst	
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- Skin Sebaceous GI Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 612

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108318

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Necrosis	Moderate
		Vacuolization Cytoplasmic	Diffuse, Moderate
[Necrosis TGLS = 5-10]			
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Marked
[Leukemia Mononuclear TGLS = 11-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-24]			
[Leukemia Mononuclear TGLS = 7-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-25]			
Mesentery		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 612

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108318

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-22]

* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Marked
* Skin	Sebaceous Gl	Adenoma	

[Adenoma TGLS = 8-23]

* Spleen		Hemorrhage	Moderate
		Leukemia Mononuclear	
		Necrosis	Marked

[Hemorrhage TGLS = 2-21]

[Leukemia Mononuclear TGLS = 1-26]

[Necrosis TGLS = 2-21]

* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Ulcer	Moderate

[Hyperplasia TGLS = 12-4]

[Leukemia Mononuclear TGLS = 12-4]

[Ulcer TGLS = 12-4]

* Testes	Bilateral, Interstit Cell	Adenoma	
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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 161

TRT#: 7

SEX: Male

DAY ON TEST: 590

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108319

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|-------------------------------------|----------------------|----------------|
| * Adrenal Cortex | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Compression | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | [Hyperplasia TGLS = 4-6] | | |
| | [Leukemia Mononuclear TGLS = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 6-2] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 5-5] | | |
| * Mammary Gland | | Hyperplasia | Moderate |
| | [Hyperplasia TGLS = 2-8] | | |
| * Nose | | Foreign Body | |
| * Pancreas | | Cyst | |
| * Pituitary Gland | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 161

TRT#: 7

SEX: Male

DAY ON TEST: 590

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108319

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 7-1]

* Prostate

* Spleen

Inflammation

Hematopoietic Cell Proliferation

Leukemia Mononuclear

Chronic, Mild

Minimal

[Leukemia Mononuclear TGLS = 3-21]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 162

TRT#: 7

SEX: Male

DAY ON TEST: 572

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108320

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Hypertrophy	Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 5-3]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
[Hematopoietic Cell Proliferation TGLS = 3-6]			
[Leukemia Mononuclear TGLS = 3-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- Preputial Gland Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 162

TRT#: 7

SEX: Male

DAY ON TEST: 572

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108320

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 163

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Eye	Retina	Degeneration	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Moderate
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Marked
	[Basophilic Focus TGLS = 3-6]		
	[Hypertrophy TGLS = 3-6]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 163

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108321

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 164

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 108322

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
--------------------------	----------------------------

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
Note: HEPATOCELLULAR ADENOMAS ARE PRESENT ON SLIDES 6 AND 21.			
		[Eosinophilic Focus TGLS = 3-6]	
		[Hepatocellular Adenoma TGLS = 6-21]	
		[Hyperplasia TGLS = 3-6]	
		[Leukemia Mononuclear TGLS = 3-6]	
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
		[Hyperplasia TGLS = 7-23]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 164

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 108322

ORGAN AND ACCOUNTABLE SITE STATUS

[Infiltration Cellular TGLS = 7-23,8-24,9-25,10-26]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-7]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Atrophy	Moderate
		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-22]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild
[Adenoma TGLS = 2-7]			
[Atrophy TGLS = 1-7]			
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108323

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Hepatocyte	Degeneration	Minimal
	Bile Duct	Eosinophilic Focus	
	Hepatocyte	Hyperplasia	Moderate
		Hypertrophy	Moderate
		Leukemia Mononuclear	
		[Hypertrophy TGLS = 4-6]	
		[Leukemia Mononuclear TGLS = 4-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
		Leukemia Mononuclear	
Lymph Node	Pancreatic		
		[Leukemia Mononuclear TGLS = 5-7]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 6-22]	
* Pancreas		Atrophy	Mild
		Cyst	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108323

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland

Inflammation

Chronic, Mild

* Skin

Cyst Epithelial Inclusion

[Cyst Epithelial Inclusion TGLS = 1-21]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 696

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108324

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	Multiple
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[Hyperplasia TGLS = 4-6]	
		[Leukemia Mononuclear TGLS = 4-6]	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 6-3]	
		[Leukemia Mononuclear TGLS = 2-7]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 696

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108324

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Moderate
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 167

TRT#: 7

SEX: Male

DAY ON TEST: 523

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108325

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Minimal
	Hepatocyte	Hypertrophy	Moderate
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 2-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Preputial Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 168

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108326

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone		Chordoma	
[Chordoma TGLS = 7-22]			
* Epididymis		Inflammation	Chronic, Mild
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Degeneration	Mild
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
[Eosinophilic Focus TGLS = 5+6-6]			
[Infiltration Cellular TGLS = 6-6]			
* Lung		Chordoma	Metastatic (Bone)
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-21]			
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Seminal Vesicle		Inflammation	Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 168

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108326

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 630

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108327

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Minimal
[Leukemia Mononuclear TGLS = 6-10]			
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-1]			
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Edema	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 7-6]			
[Leukemia Mononuclear TGLS = 7-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 630

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108327

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-7]

* Lymph Node, Mesenteric

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 5-5]

* Pancreas

Cyst

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-21]

* Stomach, Glandular

Erosion

Moderate

[Erosion TGLS = 12-4,12-22]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 170

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108328

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Degeneration	Moderate
	Bile Duct	Eosinophilic Focus	
		Hyperplasia	Minimal
	[Eosinophilic Focus TGLS = 2-6]		
* Lung		Hemorrhage	Mild
	Note: THE LUNG HEMORRHAGE IS PRIMARILY PERIVASCULAR.		
* Pancreas		Cyst	
* Preputial Gland		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 171

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108329

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 5-5]			
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 6-6]			
[Eosinophilic Focus TGLS = 6-6]			
* Lung		Hemorrhage	Mild
[Hemorrhage TGLS = 7-2]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-7]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 171

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108329

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland

[Adenoma TGLS = 1-8]

Adenoma

* Spleen

[Leukemia Mononuclear TGLS = 2-6]

Leukemia Mononuclear

* Testes

[Adenoma TGLS = 3-7]

Bilateral, Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 172

TRT#: 7

SEX: Male

DAY ON TEST: 590

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[Hyperplasia TGLS = 3-6]	
		[Leukemia Mononuclear TGLS = 3-6]	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-5]	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2-6]	
* Stomach, Glandular		Erosion	Minimal
* Thymus		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 5-3]	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 172

TRT#: 7

SEX: Male

DAY ON TEST: 590

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108330

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 173

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Moderate
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Marked
		Infiltration Cellular	Mixed Cell, Mild
		Leukemia Mononuclear	
		[Basophilic Focus TGLS = 5-6]	
		[Eosinophilic Focus TGLS = 5-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Marked
		[Necrosis TGLS = 2-22,3-23]	
* Nose		Foreign Body	
		Inflammation	Chronic, Minimal
* Pancreas	Acinus	Hyperplasia	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 173

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108331

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland

Inflammation

Chronic, Mild

* Prostate

Inflammation

Chronic, Mild

* Skin

Subcut Tiss

Fibroma

[Fibroma TGLS = 1-21]

* Spleen

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 174

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108332

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric

* Pancreas

Leukemia Mononuclear

Leukemia Mononuclear

Cyst

Leukemia Mononuclear

Note: MODERATE EDEMA IN PANCREAS (TGL 1); MORPHOLOGY UNAVAILABLE IN TDMS.

[Leukemia Mononuclear TGLS = 1-7]

* Seminal Vesicle

Leukemia Mononuclear

* Skin

Subcut Tiss

Fibroma

[Fibroma TGLS = 5-21]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 509

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	Renal Tubule	Nephropathy	Minimal
	[Leukemia Mononuclear TGLS = 11-5,11-23]	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Marked
	[Hyperplasia TGLS = 6-6]	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung		Infiltration Cellular	Histiocyte, Marked
	[Infiltration Cellular TGLS = 10-2]	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 10-2]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-3]		
	[Leukemia Mononuclear TGLS = 3-22]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-5]		
* Mammary Gland		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 509

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108333

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy Cyst Leukemia Mononuclear	Minimal
[Atrophy TGLS = 2-7]			
[Leukemia Mononuclear TGLS = 2-7]			
* Preputial Gland		Inflammation	Chronic, Moderate
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-21]			
* Testes	Germinal Epith	Atrophy	Mild
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-3]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 176

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Esophagus
- * Intestine Large, Rectum
- * Lymph Node, Mesenteric
- * Prostate
- * Spleen
- * Urinary Bladder

- * Adrenal Medulla
- * Eye
- * Intestine Small, Duodenum
- * Mammary Gland
- * Salivary Glands
- * Stomach, Glandular

- * Bone
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Nose
- * Seminal Vesicle
- * Thymus

- * Bone Marrow
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Parathyroid Gland
- * Skin
- * Trachea

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

* Brain		Astrocytoma Malignant	
		Compression	Mild
		Hemorrhage	Moderate
[Compression TGLS = 3-1]			
[Hemorrhage TGLS = 4-1]			
* Epididymis		Inflammation	Chronic, Mild
* Harderian Gland		Adenoma	
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Mild
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Mild
[Basophilic Focus TGLS = 2-6]			
[Eosinophilic Focus TGLS = 2-6]			
[Hypertrophy TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 176

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108334

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 177

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Esophagus	* Lymph Node, Mandibular
-------------	--------------------------

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver	Hepatocyte	Degeneration	Moderate
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Marked
		Leukemia Mononuclear	
		Mixed Cell Focus	
	[Hypertrophy TGLS = 4-6]		
	[Mixed Cell Focus TGLS = 4-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Cyst	
* Preputial Gland		Carcinoma	
	Note: PREPUTIAL GLAND CARCINOMA HAS BASOSQUAMOUS DIFFERENTIATION.		
	[Carcinoma TGLS = 2-8]		
* Prostate		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 177

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108335

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Atrophy

Minimal

* Skin

Keratoacanthoma

[Keratoacanthoma TGLS = 1-21]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 723

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108336

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	Mesentery	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
	[Cataract TGLS = 13-44]		
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	[Eosinophilic Focus TGLS = 7-23]		
	[Hyperplasia TGLS = 6-6]		
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 15-27]		
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 723

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108336

ORGAN AND ACCOUNTABLE SITE STATUS

	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-26]		
	[Leukemia Mononuclear TGLS = 10-25]		
	[Leukemia Mononuclear TGLS = 12-24]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-5]		
* Nose		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLS = 14-1]		
	[Leukemia Mononuclear TGLS = 14-1]		
* Prostate		Inflammation	Chronic, Marked
		Leukemia Mononuclear	
	[Inflammation TGLS = 11-7-1]		
	[Leukemia Mononuclear TGLS = 11-7-1]		
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6,3-21]		
* Thymus		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-25]		
* Thyroid Gland	Follicular Cel	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 179

TRT#: 7

SEX: Male

DAY ON TEST: 653

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108337

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
		Thrombosis	Marked
	[Thrombosis TGLS = 5-12]		
* Kidney		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
		Mixed Cell Focus	
	Kupffer Cell	Pigmentation	Moderate
	[Hepatocellular Carcinoma TGLS = 4-21]		
	[Hyperplasia TGLS = 3-6]		
	[Leukemia Mononuclear TGLS = 3-6]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 179

TRT#: 7

SEX: Male

DAY ON TEST: 653

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108337

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Heart Thrombosis;Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 180

TRT#: 7

SEX: Male

DAY ON TEST: 547

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 108338

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Adrenal Medulla	* Lymph Node, Mandibular
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AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum	* Stomach, Glandular
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Histiocytic Sarcoma	
		Infarct	Marked
	[Histiocytic Sarcoma TGLS = 4-6]		
	[Infarct TGLS = 5-22]		
* Lung		Histiocytic Sarcoma	
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Skin	Subcut Tiss	Histiocytic Sarcoma	
		Ulcer	Moderate
	[Histiocytic Sarcoma TGLS = 1-21]		
	[Ulcer TGLS = 8-23]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 6-6]		
* Stom Gland			
	Note: TGL 9 = Autolysis Precludes Diagnosis		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 180

TRT#: 7

SEX: Male

DAY ON TEST: 547

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 108338

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-7]

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Histiocytic Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108339

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Prostate	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Vacuolization Cytoplasmic Pheochromocytoma Benign	Moderate Focal, Minimal
* Adrenal Medulla			
[Pheochromocytoma Benign TGLS = 2-10]			
* Epididymis		Granuloma Sperm	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Mild
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Moderate
		Mixed Cell Focus	
[Basophilic Focus TGLS = 3-6]			
[Hypertrophy TGLS = 3-6]			
[Mixed Cell Focus TGLS = 3-6]			
* Lung		Infiltration Cellular Inflammation	Histiocyte, Minimal Chronic, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas	Acinus	Adenoma Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108339

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild
* Salivary Glands		Atrophy	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108340

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Infarct	Mild
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Mild
	[Eosinophilic Focus TGLS = 4-6]		
	[Hypertrophy TGLS = 4-6]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLS = 3-5]		
* Mammary Gland		Hyperplasia	Mild
	[Hyperplasia TGLS = 1-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 5-1]		
* Prostate		Adenoma	
		Inflammation	Chronic, Moderate
* Salivary Glands		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108340

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108341

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Moderate
* Brain		Compression	Moderate
[Compression TGLS = 8-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
[Hyperplasia TGLS = 4-6]			
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
[Infiltration Cellular TGLS = 6-2]			
[Leukemia Mononuclear TGLS = 6-2]			
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108341

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 5-21]

[Leukemia Mononuclear TGLS = 2-22]

* Lymph Node, Mesenteric

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-5]

* Mammary Gland

Hyperplasia

Moderate

* Pancreas

Atrophy

Minimal

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 7-1]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Thymus

Leukemia Mononuclear

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108342

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Esophagus	* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver	Hepatocyte	Basophilic Focus	
		Degeneration	Moderate
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Moderate
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 3-6]			
[Eosinophilic Focus TGLS = 3-6]			
[Hepatodiaphragmatic Nodule TGLS = 4-21]			
[Hypertrophy TGLS = 3-6]			
* Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 6-22]			
Lymph Node	Mediastinal	Hemorrhage	Mild
	Pancreatic	Hemorrhage	Minimal
	Mediastinal	Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108342

ORGAN AND ACCOUNTABLE SITE STATUS

	Mediastinal	Pigmentation	Mild
[Hemorrhage TGLS = 5-3]			
[Hemorrhage TGLS = 2-7]			
[Hyperplasia TGLS = 5-3]			
[Pigmentation TGLS = 5-3]			
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108343

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Moderate
* Brain		Gliosis	Moderate
		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[Hyperplasia TGLS = 8-6]	
		[Leukemia Mononuclear TGLS = 8-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 5-7]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108343

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 7-5]		Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Moderate
[Leukemia Mononuclear TGLS = 4-22]			
[Necrosis TGLS = 4-22]			
* Pancreas		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Moderate
* Seminal Vesicle		Leukemia Mononuclear	
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 9-23]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 627

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108345

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Renal Tubule	Necrosis	Moderate
		Nephropathy	Minimal
	[Necrosis TGLS = 6-5]		
* Liver		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Kupffer Cell	Pigmentation	Mild
	[Hepatocellular Adenoma TGLS = 8-6,8-22]		
	[Hyperplasia TGLS = 8-6,8-22]		
	[Leukemia Mononuclear TGLS = 8-6,8-22]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Foreign Body	
* Nose		Cyst	
* Pituitary Gland	Pars Intermed	Fibroma	
* Skin	Subcut Tiss		
	[Fibroma TGLS = 1-21]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 627

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108345

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 4-6]		Leukemia Mononuclear
* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma
* Thymus		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 674

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108346

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Adrenal Medulla

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Eosinophilic Focus	
	Bile Duct	Hepatocellular Adenoma	
		Hyperplasia	Moderate
	Kupffer Cell	Leukemia Mononuclear	
		Pigmentation	Mild
	[Hepatocellular Adenoma TGLS = 7-22]		
	[Hyperplasia TGLS = 6-6]		
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	[Infiltration Cellular TGLS = 9-23]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-3]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 674

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108346

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-7]

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Mammary Gland

Hyperplasia

Mild

* Pituitary Gland

Pars Intermed

Cyst

* Preputial Gland

Inflammation

Chronic, Mild

* Spleen

Fibrosis

Moderate

Hematopoietic Cell Proliferation

Moderate

Leukemia Mononuclear

[Fibrosis TGLS = 5-21]

[Hematopoietic Cell Proliferation TGLS = 4-6]

[Leukemia Mononuclear TGLS = 4-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 451

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108347

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Nose	* Pancreas	Peripheral Nerve	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
Skeletal Muscle	* Skin	Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Moderate
* Bone		Fracture	
[Fracture TGLS = 1-21]			
* Brain		Metaplasia	Lipocyte, Mild
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

- Bone Fracture

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 190

TRT#: 7

SEX: Male

DAY ON TEST: 656

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108348

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-1]			
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-7]			
[Leukemia Mononuclear TGLS = 8-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-22]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
* Spleen		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014
Time Report Requested: 07:44:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 190	TRT#: 7	SEX: Male	DAY ON TEST: 656
	DOSE: 25000 PPM	DISP: Moribund Sacrifice	HISTO: 108348

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 6-21] [Hemorrhage TGLS = 6-21] [Leukemia Mononuclear TGLS = 3-23] * Stomach, Forestomach		Hemorrhage Leukemia Mononuclear	Moderate
* Stomach, Glandular	Epithelium	Edema Hyperplasia Erosion Leukemia Mononuclear	Mild Minimal Mild
[Erosion TGLS = 10-4] [Leukemia Mononuclear TGLS = 10-4] * Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108349

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Degeneration	Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
	[Eosinophilic Focus TGLS = 3-6]		
* Lung		Hemorrhage	Marked
	Note: LUNG HEMORRHAGE IS PERIVASCULAR AND INTRA-ALVEOLAR.		
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 4-21]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 478

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108350

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Infarct	Mild
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
		[Leukemia Mononuclear TGLS = 7-6]	
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Ectasia	Moderate
	Pancreatic	Leukemia Mononuclear	
		[Ectasia TGLS = 3-7]	
		[Leukemia Mononuclear TGLS = 3-7]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Accessory Spleen	
		[Accessory Spleen TGLS = 4-7]	
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014
Time Report Requested: 07:44:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 478

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108350

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

[Hematopoietic Cell Proliferation TGLS = 5-6]

[Leukemia Mononuclear TGLS = 5-6]

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Moderate

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 711

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108351

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
	Centrilobular	Necrosis	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Intermed	Cyst	
* Salivary Glands		Schwannoma Malignant	
	[Schwannoma Malignant TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- Salivary Glands Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 688

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108352

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Keratoacanthoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108353

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
		Infiltration Cellular	Mixed Cell, Moderate
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 3-6]			
[Eosinophilic Focus TGLS = 3-6]			
[Hepatodiaphragmatic Nodule TGLS = 5-21]			
[Hypertrophy TGLS = 3-6]			
[Infiltration Cellular TGLS = 3-6]			
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108353

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 1-7]			
[Atrophy TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108354

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Basophilic Focus	
		Degeneration	Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Mild
		[Basophilic Focus TGLS = 3-6]	
		[Eosinophilic Focus TGLS = 3-6]	
		[Hypertrophy TGLS = 3-6]	
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 1-21]	
* Pituitary Gland	Pars Distalis	Adenoma	
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 2-7]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108354

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108355

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Moderate
	[Basophilic Focus TGLS = 3-6]		
	[Eosinophilic Focus TGLS = 3-6]		
	[Hepatocellular Adenoma TGLS = 4-22]		
	[Hypertrophy TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Cyst	
* Salivary Glands		Atrophy	Mild
* Skin		Cyst Epithelial Inclusion	
	[Cyst Epithelial Inclusion TGLS = 1-21]		
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108355

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Focal, Mild
* Brain		Compression	Moderate
[Compression TGLS = 4-1]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Hepatocyte	Degeneration	Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Moderate
[Clear Cell Focus TGLS = 2-6]			
[Eosinophilic Focus TGLS = 2-6]			
[Hypertrophy TGLS = 2-6]			
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108356

ORGAN AND ACCOUNTABLE SITE STATUS

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLS = 1-7]

* Urin Bladder

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108357

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Intestine Small, Ileum		Inflammation	Chronic, Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Mild
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Moderate
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 2-6]			
[Clear Cell Focus TGLS = 2-6]			
[Eosinophilic Focus TGLS = 2-6]			
[Hypertrophy TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Ectasia	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Pancreatic	Hyperplasia	Lymphoid, Mild
[Ectasia TGLS = 5-3]			
[Hyperplasia TGLS = 5-3]			
[Hyperplasia TGLS = 3-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108357

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric
[Ectasia TGLS = 4-5]

Ectasia

Marked

* Pancreas

Atrophy

Mild

* Preputial Gland

Inflammation

Chronic, Mild

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108358

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	
		[Hepatocellular Adenoma TGLS = 4-22]	
		[Hyperplasia TGLS = 5-6]	
		[Leukemia Mononuclear TGLS = 5-6]	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Ectasia	Mild
		Leukemia Mononuclear	
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Intermed	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108358

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 2-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 1-7]	Interstit Cell Germinal Epith	Adenoma Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 201

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: 108359

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Brain		Compression	Mild
[Compression TGLS = 4-1]			
* Harderian Gland		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Hypertrophy	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 201

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: 108359

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 202

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: 108360

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 3-8]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLS = 4-6,6-22]			
[Clear Cell Focus TGLS = 4-6]			
[Eosinophilic Focus TGLS = 7-23]			
* Lung	Alveolar Epith	Hemorrhage	Mild
		Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 2-21]			
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 5-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 202

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: 108360

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 203

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: 108361

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	[Basophilic Focus TGLS = 5-6]		
	[Hepatodiaphragmatic Nodule TGLS = 4-23]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Minimal
	Note: FIBROADENOMAS ARE PRESENT ON SLIDES 8, 21, AND 22.		
	[Fibroadenoma TGLS = 2-21,3-22]		
	[Hyperplasia TGLS = 1-8]		
* Ovary		Cyst	
	[Cyst TGLS = 7-7]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 203

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: 108361

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 204

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108362

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Clitoral Gland		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Adenoma	Multiple
		Fibroadenoma	
		Hyperplasia	Mild
[Adenoma TGLS = 2-8,4-8]			
[Fibroadenoma TGLS = 1-21]			
[Hyperplasia TGLS = 3-8]			
* Pituitary Gland	Pars Distalis	Cyst	
* Salivary Glands		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 205

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 719

HISTO: 108363

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Adrenal Medulla	* Lymph Node, Mandibular
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Brain		Compression	Marked
		Hemorrhage	Mild
[Compression TGLS = 9-1]			
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Hypertrophy	Mild
[Basophilic Focus TGLS = 3-6]			
[Hypertrophy TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
[Infiltration Cellular TGLS = 6-2]			
[Inflammation TGLS = 6-2]			
Lymph Node	Mediastinal	Hemorrhage	Mild
		Hemorrhage	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Mild
		Pigmentation	Moderate
[Hemorrhage TGLS = 5-22]			
[Hemorrhage TGLS = 4-3]			
[Pigmentation TGLS = 5-22]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 205

TRT#: 2

SEX: Female

DAY ON TEST: 719

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108363

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
	[Fibroadenoma TGLS = 1-21,10-24]		
	[Hyperplasia TGLS = 2-8]		
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 8-1]		
* Salivary Glands		Atrophy	Minimal
* Skin		Hemorrhage	Mild
	[Hemorrhage TGLS = 7-23]		
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 206

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Esophagus	* Lymph Node, Mandibular
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OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Adenoma	
		Fibroadenoma	
		Hyperplasia	Mild
[Adenoma TGLS = 3-23]			
[Fibroadenoma TGLS = 1-21]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-22]			
* Pituitary Gland	Pars Distalis	Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 207

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 108365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 2-21]			
[Hyperplasia TGLS = 1-8]			
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 4-23]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Skin		Trichoepithelioma	
[Trichoepithelioma TGLS = 3-22]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 5-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 207

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108365

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 208

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 108366

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Degeneration	Fatty, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 3-6]		
	[Mixed Cell Focus TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[Fibroadenoma TGLS = 1-21]		
	[Hyperplasia TGLS = 2-8]		
* Ovary		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
	[Angiectasis TGLS = 4-1]		
* Spleen		Accessory Spleen	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 208

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 108366

ORGAN AND ACCOUNTABLE SITE STATUS

[Accessory Spleen TGLS = 5-22]

* Uterus

Hematopoietic Cell Proliferation

Mild

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 209

TRT#: 2

SEX: Female

DAY ON TEST: 690

DOSE: 0 PPM

DISP: Natural Death

HISTO: 108367

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Brain		Compression	Marked
[Compression TGLS = 5-1]			
* Heart		Cardiomyopathy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-8]		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular		Erosion	Mild
* Uterus		Polyp Stromal	Multiple
[Polyp Stromal TGLS = 2-7,3-7]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 210

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Natural Death

DAY ON TEST: 537

HISTO: 108368

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Clitoral Gland

* Heart

* Intestine Small, Duodenum

* Pancreas

* Stomach, Forestomach

* Trachea

* Adrenal Medulla

* Esophagus

* Intestine Large, Cecum

* Islets, Pancreatic

* Parathyroid Gland

* Stomach, Glandular

* Urinary Bladder

* Bone

* Eye

* Intestine Large, Colon

* Kidney

* Salivary Glands

* Thymus

* Uterus

* Bone Marrow

* Harderian Gland

* Intestine Large, Rectum

* Nose

* Skin

* Thyroid Gland

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

* Intestine Small, Jejunum

OBSERVATIONS

* Brain

[Compression TGLS = 3-1]

* Liver

* Lung

[Hemorrhage TGLS = 2-2]

* Lymph Node, Mesenteric

* Mammary Gland

[Hyperplasia TGLS = 1-8]

* Ovary

* Pituitary Gland

[Adenoma TGLS = 4-1]

* Spleen

Compression

Hemorrhage

Basophilic Focus

Hemorrhage

Hyperplasia

Infiltration Cellular

Hyperplasia

Hyperplasia

Cyst

Adenoma

Hematopoietic Cell Proliferation

Marked

Moderate

Mild

Minimal

Histiocyte, Minimal

Lymphoid, Moderate

Moderate

Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 211

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 108369

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[Basophilic Focus TGLS = 6-6]		
	[Clear Cell Focus TGLS = 6-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
	[Fibroadenoma TGLS = 3-22,4-23,5-24]		
	[Hyperplasia TGLS = 1-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 2-21]		
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 211

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 108369

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 212

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 611

HISTO: 108370

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Thyroid Gland	* Trachea	Vagina

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Hepatodiaphragmatic Nodule	
	Hepatocyte	Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 10-22,11-23]	Vacuolization Cytoplasmic	Marked
	[Leukemia Mononuclear TGLS = 8-6,9-6]		
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 12-24]		
	[Leukemia Mononuclear TGLS = 5-25]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 14-26]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
	[Fibroadenoma TGLS = 1-21]		
	[Hyperplasia TGLS = 2-8]		
* Ovary		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
	Note: PANCREAS IS VISIBLE ON SLIDE 4.		
* Pituitary Gland	Pars Distalis	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 212

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 611

HISTO: 108370

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen
[Leukemia Mononuclear TGLS = 3-6,4-6]

Leukemia Mononuclear
Leukemia Mononuclear

* Stomach, Forestomach

Leukemia Mononuclear

* Stomach, Glandular

Leukemia Mononuclear

* Thymus

Leukemia Mononuclear

* Urinary Bladder

Leukemia Mononuclear

* Uterus

Leukemia Mononuclear

Polyp Stromal

[Polyp Stromal TGLS = 7-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 213

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 108371

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	[Basophilic Focus TGLS = 1-6]		
	[Clear Cell Focus TGLS = 1-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[Fibroadenoma TGLS = 3-21]		
	[Hyperplasia TGLS = 2-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	[Adenoma TGLS = 4-1]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 214

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 108372

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 3-6]		
	[Mixed Cell Focus TGLS = 3-6]		
* Lung		Hemorrhage	Mild
* Mammary Gland		Hyperplasia	Mild
	[Hyperplasia TGLS = 1-8]		
* Pituitary Gland	Pars Distalis	Cyst	
	[Cyst TGLS = 4-1]		
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 215

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 108373

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|------------------------------|---------------|----------------------------------|---------------------|
| * Bone | | Fracture | |
| [Fracture TGLS = 5-22] | | | |
| * Clitoral Gland | | Carcinoma | |
| [Carcinoma TGLS = 1-21] | | Cyst | |
| [Cyst TGLS = 2-8] | | | |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Hyperplasia | Moderate |
| * Pituitary Gland | Pars Distalis | Cyst | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Uterus | | Polyp Stromal | |
| [Polyp Stromal TGLS = 3-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 216

TRT#: 2

SEX: Female

DAY ON TEST: 666

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108374

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 3-6]			
* Lung		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Minimal
	Mediastinal	Pigmentation	Minimal
[Pigmentation TGLS = 5-3]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
[Fibroadenoma TGLS = 1-21]			
[Hyperplasia TGLS = 2-8]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 217

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 108375

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-21]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Carcinoma	
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 218

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 108376

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Marked
[Compression TGLS = 4-1]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Carcinoma	
		Fibroadenoma	Multiple
		Hyperplasia	Moderate
[Carcinoma TGLS = 6-23]			
[Fibroadenoma TGLS = 1-21,2-22]			
[Hyperplasia TGLS = 5-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 219

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108377

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Mild
* Eye		Cataract	Mild
	Retina	Degeneration	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Cyst	
		Nephropathy	Minimal
	[Cyst TGLS = 4-5]		
* Liver		Basophilic Focus	
	[Basophilic Focus TGLS = 6-6]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
	[Fibroadenoma TGLS = 1-21,2-22]		
	[Hyperplasia TGLS = 3-8]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 5-23]		
* Nose		Foreign Body	
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014
Time Report Requested: 07:44:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 219

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 733
HISTO: 108377

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 7-1]

* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 220

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 108378

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 3-6]		
	[Mixed Cell Focus TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
	[Fibroadenoma TGLS = 1-21]		
	[Hyperplasia TGLS = 4-8]		
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 221

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108379

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
[Basophilic Focus TGLS = 10-24]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Pancreatic	Hemorrhage	Moderate
	Mediastinal	Pigmentation	Moderate
[Hemorrhage TGLS = 7-7]			
[Hemorrhage TGLS = 8-3]			
[Pigmentation TGLS = 8-3]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Carcinoma	Multiple
		Fibroadenoma	
		Hyperplasia	Marked
[Carcinoma TGLS = 2-21]			
[Fibroadenoma TGLS = 4-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 221

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108379

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 1-8,3-22]			
* Ovary		Cyst	
[Cyst TGLS = 5-7]			
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 9-1]			
* Spleen		Accessory Spleen	
		Hematopoietic Cell Proliferation	Mild
[Accessory Spleen TGLS = 6-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 222

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108380

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Metaplasia	Osseous, Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Marked
[Hyperplasia TGLS = 1-8,2-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
[Adenoma TGLS = 5-3]			
* Uterus		Polyp Stromal	Multiple
[Polyp Stromal TGLS = 3-7,4-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 223

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 108381

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
		[Fibroadenoma TGLS = 1-21,2-22,3-23]	
* Ovary		Cyst	
		[Cyst TGLS = 4-7]	
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
		[Adenoma TGLS = 5-1]	
		[Cyst TGLS = 5-1]	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 223

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 108381

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 224

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 108382

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
[Basophilic Focus TGLS = 4-6]			
[Hepatodiaphragmatic Nodule TGLS = 5-23]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
[Fibroadenoma TGLS = 2-21]			
[Hyperplasia TGLS = 1-8]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-22]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
[Adenoma TGLS = 6-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 224

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 108382

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 225

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 108383

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
	[Basophilic Focus TGLS = 4-6]		
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
	[Fibroadenoma TGLS = 2-21]		
	[Hyperplasia TGLS = 1-8]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 5-1]		
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 226

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 108384

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Bone Marrow		Histiocytic Sarcoma	
* Intestine Large, Cecum		Edema	Moderate
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
* Liver		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 4-6]			
* Lung		Hemorrhage	Mild
[Hemorrhage TGLS = 10-2]			
[Histiocytic Sarcoma TGLS = 10-2,11-21,12-22,13-23,14-24,15-25,16-26]			
Lymph Node	Mediastinal	Hemorrhage	Mild
	Pancreatic	Hemorrhage	Moderate
	Mediastinal	Histiocytic Sarcoma	
	Pancreatic	Histiocytic Sarcoma	
[Hemorrhage TGLS = 7-7]			
[Hemorrhage TGLS = 17-3]			
[Histiocytic Sarcoma TGLS = 7-7]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
[Hemorrhage TGLS = 8-5]			
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 226

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108384

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary		Histiocytic Sarcoma	
* Pancreas		Histiocytic Sarcoma	
* Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 18-1]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 5-6]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 9-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 227

TRT#: 2

SEX: Female

DAY ON TEST: 404

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108385

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

INSUFFICIENT TISSUE

- * Adrenal Medulla

OBSERVATIONS

- | | | |
|--------------------------|----------------------------------|---------------------|
| * Bone Marrow | Hyperplasia | Marked |
| * Liver | Basophilic Focus | |
| | Infiltration Cellular | Mixed Cell, Minimal |
| * Lung | Hyperplasia | Lymphoid, Mild |
| * Lymph Node, Mesenteric | Hyperplasia | Lymphoid, Moderate |
| * Mammary Gland | Hyperplasia | Mild |
| * Spleen | Hematopoietic Cell Proliferation | Marked |
| * Uterus | Polyp Stromal | |

Note: THE STROMAL POLYP IS ULCERATED.

[Polyp Stromal TGLS = 1-21]

PRIMARY CAUSE OF DEATH

- Uterus Polyp Stromal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 228

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Natural Death

DAY ON TEST: 711

HISTO: 108386

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
--------------------------	----------------------------

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-2]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-7]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
[Fibroadenoma TGLS = 8-22]			
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
		Leukemia Mononuclear	
[Angiectasis TGLS = 9-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 228

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Natural Death

DAY ON TEST: 711

HISTO: 108386

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Stomach, Glandular		Erosion	Minimal
* Thymus [Leukemia Mononuclear TGLS = 5-3]		Leukemia Mononuclear	
Tissue NOS [Leukemia Mononuclear TGLS = 7-21]	Mediastinum	Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 229

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 627

HISTO: 108387

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
Vagina			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Sarcoma	
Note: THE "SARCOMA" IS CONSIDERED A RENAL MESENCHYMAL TUMOR; MORPHOLOGY UNAVAILABLE ON TDMS.			
[Sarcoma TGLS = 4-5]			
* Liver		Basophilic Focus	
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 2-8]			
* Ovary		Cyst	
[Cyst TGLS = 5-7]			
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
	Pars Distalis	Sarcoma	Metastatic (Skin)
Note: THE METASTATIC SARCOMA IS NECROTIC.			
[Angiectasis TGLS = 8-1]			
[Sarcoma TGLS = 8-1]			
* Skin	Subcut Tiss	Sarcoma	
[Sarcoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 229

TRT#: 2

SEX: Female

DAY ON TEST: 627

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108387

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLS = 6-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Sarcoma

CONTRIBUTORY CAUSE OF DEATH

- Kidney Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 230

TRT#: 2

SEX: Female

DAY ON TEST: 627

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108388

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Marked
[Compression TGLS = 5-1]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-21]		Hyperplasia	Marked
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Salivary Glands		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Squamous Cell Papilloma	
Note: A PORTION OF THE SQUAMOUS PAPILOMA IS ON SLIDE 4.			
[Squamous Cell Papilloma TGLS = 6-22]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 231

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 108389

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 4-44]			
* Harderian Gland		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Moderate
[Cardiomyopathy TGLS = 3-12]			
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 232

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108390

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 10-1]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 6-24]			
[Leukemia Mononuclear TGLS = 7-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Carcinoma	
		Fibroadenoma	Multiple
		Hyperplasia	Moderate
[Carcinoma TGLS = 2-21]			
[Fibroadenoma TGLS = 3-22,8-25]			
[Hyperplasia TGLS = 1-8]			
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 5-23]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 232

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 108390

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Atrophy

Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-6]

* Thymus

Cyst

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 233

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 663

HISTO: 108391

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mesenteric | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|--------------------------------------|----------------------------------|---------------------|
| * Adrenal Cortex | | Hematopoietic Cell Proliferation | Moderate |
| * Bone Marrow | | Hyperplasia | Marked |
| * Clitoral Gland | | Adenoma | |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | [Infiltration Cellular TGLS = 3-6] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Carcinoma | |
| | | Hyperplasia | Moderate |
| | [Carcinoma TGLS = 1-21] | | |
| * Nose | | Foreign Body | |
| | | Inflammation | Chronic, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Angiectasis | Moderate |
| | Pars Distalis | Cyst | |
| | Pars Distalis | Hyperplasia | Focal, Moderate |
| * Spleen | | Hematopoietic Cell Proliferation | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 233

TRT#: 2

SEX: Female

DAY ON TEST: 663

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108391

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 2-6]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 234

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 108392

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-21]		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate
[Adenoma TGLS = 6-1]			
[Angiectasis TGLS = 6-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 235

TRT#: 2

SEX: Female

DAY ON TEST: 723

DOSE: 0 PPM

DISP: Natural Death

HISTO: 108393

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------|-------------------|--------------------------|------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Colon | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Lymph Node, Mesenteric |
| * Pancreas | * Spleen | | |

OBSERVATIONS

- | | | | |
|--------------------------------------|---------------|-----------------------|----------------------|
| * Liver | | Basophilic Focus | |
| * Lung | | Infiltration Cellular | Histiocyte, Moderate |
| [Infiltration Cellular TGLS = 1-2] | | | |
| * Mammary Gland | | Hyperplasia | Moderate |
| * Nose | | Foreign Body | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 4-1] | | | |

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 236

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 575

HISTO: 108394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Hematopoietic Cell Proliferation	Minimal
	Centrilobular	Hepatodiaphragmatic Nodule	
	Hepatocyte	Necrosis	Minimal
		Vacuolization Cytoplasmic	Moderate
	[Hepatodiaphragmatic Nodule TGLS = 7-22]		
	[Necrosis TGLS = 5-6]		
	[Vacuolization Cytoplasmic TGLS = 5-6]		
* Mammary Gland		Hyperplasia	Moderate
	[Hyperplasia TGLS = 2-8]		
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Intermed	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
	[Angiectasis TGLS = 6-1]		
	[Angiectasis TGLS = 6-1]		
* Skin	Subcut Tiss	Sarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 236

TRT#: 2

SEX: Female

DAY ON TEST: 575

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108394

ORGAN AND ACCOUNTABLE SITE STATUS

[Sarcoma TGLS = 3-21]

* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Forestomach		Ulcer	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

[Polyp Stromal TGLS = 4-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 237

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Natural Death

DAY ON TEST: 689

HISTO: 108395

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Lung	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLS = 4-6]			
[Eosinophilic Focus TGLS = 4-6]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Minimal
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Minimal
		Pigmentation	Moderate
[Pigmentation TGLS = 6-1]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular		Erosion	Moderate
[Erosion TGLS = 5-4]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 237

TRT#: 2

SEX: Female

DAY ON TEST: 689

DOSE: 0 PPM

DISP: Natural Death

HISTO: 108395

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Uterus Polyp Stromal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 238

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 682

HISTO: 108396

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Moderate
Note: TGL 4 IS A SECTION OF NORMAL-APPEARING PANCREAS.			
[Necrosis TGLS = 3-21]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 7-1]			
* Skin		Neural Crest Tumor	
[Neural Crest Tumor TGLS = 6-23]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular		Erosion	Minimal
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-7]			

PRIMARY CAUSE OF DEATH - Skin Neural Crest Tumor

Animal Note: TGL 4=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 239

TRT#: 2

SEX: Female

DAY ON TEST: 575

DOSE: 0 PPM

DISP: Natural Death

HISTO: 108397

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Necrosis	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Brain		Necrosis	Minimal
* Heart		Cardiomyopathy	Minimal
		Inflammation	Chronic, Moderate
		Thrombosis	Marked
Note: HEART THROMBUS IS INVOLVING THE ATRIO-VENTRICULAR VALVES.			
* Kidney	Transit Epithe	Hyperplasia	Moderate
		Inflammation	Suppurative, Moderate
	Papilla	Necrosis	Moderate
	Renal Tubule	Necrosis	Moderate
		Nephropathy	Minimal
	[Necrosis TGLS = 2-5]		
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Mild
	[Infiltration Cellular TGLS = 4-6]		
* Lung		Edema	Mild
		Hemorrhage	Moderate
	[Edema TGLS = 5-2]		
	[Hemorrhage TGLS = 5-2]		
Lymph Node	Mediastinal	Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 239

TRT#: 2

SEX: Female

DAY ON TEST: 575

DOSE: 0 PPM

DISP: Natural Death

HISTO: 108397

ORGAN AND ACCOUNTABLE SITE STATUS

	Mediastinal	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 3-3]			
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate
* Salivary Glands		Atrophy	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Ulcer	Moderate
* Urinary Bladder		Edema	Mild
	Transit Epithe	Hyperplasia	Mild
* Uterus		Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	- Heart Thrombosis		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 240

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 709

HISTO: 108398

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-8]			
* Heart		Schwannoma Malignant	
[Schwannoma Malignant TGLS = 8-12]			
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		Necrosis	Focal, Mild
Note: LIVER NECROSIS IS PRESENT ON SLIDE 22.			
[Basophilic Focus TGLS = 6-6]			
[Hepatodiaphragmatic Nodule TGLS = 5-22]			
[Leukemia Mononuclear TGLS = 6-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 2-21]			
Mesentery	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 240

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 709

HISTO: 108398

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 7-23]

* Nose	Respirat Epith	Foreign Body Hyperplasia Inflammation	Minimal Chronic, Mild
* Pancreas		Atrophy	Mild
[Atrophy TGLS = 3-7]			
* Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Angiectasis Cyst Hyperplasia	Moderate Focal, Moderate
[Angiectasis TGLS = 9-1]			
* Spleen		Hematopoietic Cell Proliferation Leukemia Mononuclear	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hemorrhage Hyperplasia	Moderate Cystic, Marked
[Hemorrhage TGLS = 4-7]			
[Hyperplasia TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

- Heart Schwannoma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma;Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 241

TRT#: 2

SEX: Female

DAY ON TEST: 716

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108399

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Intestine Small, Ileum	* Lymph Node, Mandibular
--------------------------	--------------------------

OBSERVATIONS

* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 1-8]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Leukemia Mononuclear TGLS = 2-6]		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
Lymph Node	Mediastinal	Hematopoietic Cell Proliferation	Mild
	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Mild
[Hematopoietic Cell Proliferation TGLS = 3-3]			
[Hyperplasia TGLS = 3-3]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland		Hyperplasia	Mild
* Ovary		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
* Skin		Hyperkeratosis	Marked
	Epidermis	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 241

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 716

HISTO: 108399

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperkeratosis TGLS = 4-21,5-22,6-23,7-24]

[Hyperplasia TGLS = 4-21,5-22,6-23,7-24]

[Ulcer TGLS = 4-21,5-22,6-23,7-24]

* Spleen

Ulcer

Moderate

Hematopoietic Cell Proliferation

Mild

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Clitoral Gland Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 242

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 696

HISTO: 108400

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Liver	Bile Duct	Myelofibrosis	Moderate
		Hyperplasia	Moderate
	Kupffer Cell	Leukemia Mononuclear	
	[Hyperplasia TGLS = 3-6]	Pigmentation	Mild
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
		[Fibroadenoma TGLS = 6-21]	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 242

TRT#: 2

SEX: Female

DAY ON TEST: 696

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108400

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLS = 7-1]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-6]

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 243

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108401

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	[Basophilic Focus TGLS = 1-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 244

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: 108402

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Basophilic Focus TGLS = 4-6]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
		[Fibroadenoma TGLS = 2-21,3-22]	
		[Hyperplasia TGLS = 1-8]	
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 5-1]	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 245

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 703

HISTO: 108403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Carcinoma	Multiple
[Carcinoma TGLS = 1-21,2-22]			
* Eye		Cataract	Mild
	Retina	Degeneration	Moderate
* Heart		Cardiomyopathy	Moderate
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
* Salivary Glands		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Leiomyosarcoma	
[Leiomyosarcoma TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

- Clitoral Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 246

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 108404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
	[Fibroadenoma TGLS = 2-21]		
	[Hyperplasia TGLS = 1-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-1]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 247

TRT#: 2

SEX: Female

DAY ON TEST: 711

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 108405

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	Peripheral Nerve
* Skin	Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
* Eye		Cataract	Moderate
	Retina	Degeneration	Marked
[Cataract TGLS = 4-44]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 1-21]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-22]			
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Cyst	
* Salivary Glands		Atrophy	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 248

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 108406

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 3-6]		
	[Hepatodiaphragmatic Nodule TGLS = 2-21]		
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Moderate
	[Hyperplasia TGLS = 1-8]		
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate
Tongue		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLS = 4-22]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 248

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108406

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 249

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 108407

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Mild
		Gliosis	Mild
[Compression TGLS = 8-1]			
* Clitoral Gland		Hyperplasia	Focal, Mild
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Hyperplasia TGLS = 6-6]			
[Leukemia Mononuclear TGLS = 6-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 249

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 108407

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-7]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-5]			
* Mammary Gland		Fibroadenoma Hyperplasia	Moderate
[Fibroadenoma TGLS = 2-21]			
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Cyst	
[Adenoma TGLS = 9-1]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Thymus		Leukemia Mononuclear	
* Urin Bladder			

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 250

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 108408

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Ovary		Cyst	
[Cyst TGLS = 3-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 251

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
* Clitoral Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Hepatocyte	Hepatodiaphragmatic Nodule	
		Hypertrophy	Minimal
	[Basophilic Focus TGLS = 1-6]		
	[Eosinophilic Focus TGLS = 1-6]		
	[Hepatodiaphragmatic Nodule TGLS = 2-21]		
	[Hypertrophy TGLS = 1-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 3-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 252

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108410

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Degeneration	Fatty, Moderate
	Hypertrophy	Focal, Moderate
	Adenoma	
* Islets, Pancreatic [Adenoma TGLS = 1-7]		
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
	Eosinophilic Focus	
	Hepatodiaphragmatic Nodule	
	Infiltration Cellular	Mixed Cell, Marked
* Ovary [Granulosa-Theca Tumor Benign TGLS = 2-7]	Granulosa-Theca Tumor Benign	
* Pituitary Gland Pars Distalis	Cyst	
* Spleen	Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 253

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108411

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Minimal
[Eosinophilic Focus TGLS = UPL]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Minimal
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicle	Cyst	
* Uterus		Hyperplasia	Cystic, Marked
		Polyp Stromal	
[Hyperplasia TGLS = 2-7]			
[Polyp Stromal TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 254

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108412

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
[Basophilic Focus TGLS = 5-6]			
[Eosinophilic Focus TGLS = 5-6]			
[Hepatodiaphragmatic Nodule TGLS = 7-24]			
* Lung		Edema	Mild
* Mammary Gland		Adenoma	
		Fibroadenoma	
		Hyperplasia	Marked
[Adenoma TGLS = 2-21]			
[Fibroadenoma TGLS = 3-22]			
[Hyperplasia TGLS = 1-8,4-23]			
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
[Angiectasis TGLS = 6-1]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 254

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108412

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 255

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Minimal
	[Eosinophilic Focus TGLS = 5-22]		
* Lung		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[Fibroadenoma TGLS = 2-21]		
	[Hyperplasia TGLS = 1-8]		
* Ovary		Cyst	
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	[Adenoma TGLS = 4-1]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Urin Bladder			
	Note: INFUSION ARTIFACT IN URINARY BLADDER.		
* Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 255

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108413

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 256

TRT#: 4

DOSE: 3000 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 108414

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma Carcinoma	
Note: CLITORAL GLAND ADENOMA IS ON SLIDE 8. CLITORAL GLAND CARCINOMA IS PRESENT ON SLIDES 8 AND 21. [Carcinoma TGLS = 1-21]			
* Eye	Retina	Cataract Degeneration	Minimal Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Clear Cell Focus Eosinophilic Focus	
[Eosinophilic Focus TGLS = 5-23]			
* Lung		Inflammation	Chronic, Mild
* Mammary Gland		Fibroadenoma Hyperplasia	Mild
[Fibroadenoma TGLS = 2-22] [Hyperplasia TGLS = 3-8]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland		Carcinoma	
Note: LESION TABULATED AS CARCINOMA ACTUALLY APPEARS TO BE A GANGLIOCYTOMA; MORPHOLOGY UNAVAILABLE ON TDMS. [Carcinoma TGLS = 4-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 256

TRT#: 4

DOSE: 3000 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 108414

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Mild

* Uterus

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 257

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108415

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Moderate Fatty, Moderate
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-8]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
	Hepatocyte	Basophilic Focus Degeneration	Minimal
	Hepatocyte	Eosinophilic Focus Hypertrophy	Minimal
[Angiectasis TGLS = 3-21]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 2-8]			
* Pancreas		Cyst	
	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 257

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108415

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 258

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108416

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 3-6]		
	[Mixed Cell Focus TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
	[Fibroadenoma TGLS = 2-21]		
	[Hyperplasia TGLS = 1-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 5-1]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 4-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 259

TRT#: 4

SEX: Female

DAY ON TEST: 568

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108417

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|------------------|--|----------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Minimal |
| * Bone Marrow | | Hyperplasia | Mild |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | [Hepatodiaphragmatic Nodule TGLS = 3-23] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Skin | Subcut Tiss | Fibroma | |
| | Subcut Tiss | Fibrosarcoma | |
| | [Fibroma TGLS = 2-22] | | |
| | [Fibrosarcoma TGLS = 1-21] | | |
| * Uterus | | Polyp Stromal | |
| | [Polyp Stromal TGLS = 4-7] | | |

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 260

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Liver		Basophilic Focus	
* Lung		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 261

TRT#: 4

DOSE: 3000 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 108419

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
	Hepatocyte	Hepatodiaphragmatic Nodule	
		Hypertrophy	Minimal
		Mixed Cell Focus	
	[Hepatodiaphragmatic Nodule TGLS = 4-22]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
	[Fibroadenoma TGLS = 2-21]		
	[Hyperplasia TGLS = 1-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 5-1]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Hyperplasia	Cystic, Marked
	[Hyperplasia TGLS = 3-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 261

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108419

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 262

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108420

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Intestine Small, Ileum	* Lymph Node, Mandibular
--------------------------	--------------------------

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hyperplasia	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
[Compression TGLS = 7-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
[Fibroadenoma TGLS = 2-22]			
[Hyperplasia TGLS = 1-21,3-8]			
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 4-1]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 262

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108420

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 263

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hyperplasia	Focal, Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	[Basophilic Focus TGLS = 5-6]		
	[Eosinophilic Focus TGLS = 5-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mediastinal	Pigmentation	Moderate
	[Hemorrhage TGLS = 6-3]		
	[Pigmentation TGLS = 6-3]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Minimal
	[Hyperplasia TGLS = 1-8]		
Mesentery	Fat	Necrosis	Marked
	[Necrosis TGLS = 3-21,4-22]		
* Ovary		Cyst	
* Pancreas		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 263

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108421

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Cyst

* Spleen

Hematopoietic Cell Proliferation

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 264

TRT#: 4

DOSE: 3000 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 108422

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------------------|---------------|-----------------------|----------------------|
| * Bone Marrow | | Infiltration Cellular | Histiocyte, Moderate |
| * Brain | | Ependymoma Malignant | |
| [Ependymoma Malignant TGLS = 4-1] | | | |
| * Clitoral Gland | | Hyperplasia | Focal, Moderate |
| | | Inflammation | Chronic, Mild |
| [Hyperplasia TGLS = 1-8] | | | |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Moderate |
| [Basophilic Focus TGLS = 2-6] | | | |
| [Eosinophilic Focus TGLS = 2-6] | | | |
| [Infiltration Cellular TGLS = 2-6] | | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | | Hyperplasia | Minimal |
| [Fibroadenoma TGLS = 5-21] | | | |
| * Pituitary Gland | Pars Distalis | Angiectasis | Mild |
| | Pars Distalis | Cyst | |
| [Angiectasis TGLS = 3-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 264

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108422

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 3-1]

* Spleen

Hematopoietic Cell Proliferation

Minimal

* Urin Bladder

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 265

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
		[Fibroadenoma TGLS = 1-21]	
		[Hyperplasia TGLS = 2-8]	
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 266

TRT#: 4

SEX: Female

DAY ON TEST: 709

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108424

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Bone Marrow		Hyperplasia	Marked
* Brain		Astrocytoma Malignant	
* Clitoral Gland		Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 2-8]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Eosinophilic Focus	
		Hypertrophy	Mild
[Basophilic Focus TGLS = 7-6]			
[Eosinophilic Focus TGLS = 7-6]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Foreign Body	
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
[Alveolar/Bronchiolar Adenoma TGLS = 9-23]			
[Foreign Body TGLS = 6-2]			
[Infiltration Cellular TGLS = 6-2]			
[Inflammation TGLS = 6-2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 266

TRT#: 4

DOSE: 3000 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 709

HISTO: 108424

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Pigmentation	Mild
[Hemorrhage TGLS = 8-3]			
[Hyperplasia TGLS = 8-3]			
[Pigmentation TGLS = 8-3]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Carcinoma	
		Hyperplasia	Moderate
[Carcinoma TGLS = 3-21]			
[Hyperplasia TGLS = 1-8]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-22]			
* Nose		Foreign Body	
* Ovary		Cyst	
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Intermed	Adenoma	
	Pars Distalis	Cyst	
[Adenoma TGLS = 10-1]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
PRIMARY CAUSE OF DEATH	- Brain Astrocytoma Malignant		
CONTRIBUTORY CAUSE OF DEATH	- Mammary Gland Carcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 267

TRT#: 4

SEX: Female

DAY ON TEST: 627

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108425

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Salivary Glands	* Skin	Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Marked
[Compression TGLS = 5-1]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Hypertrophy	Mild
		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Adenoma	
		Hyperplasia	Moderate
[Adenoma TGLS = 3-21]			
[Hyperplasia TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 268

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108426

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 269

TRT#: 4

SEX: Female

DAY ON TEST: 589

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Marked
[Compression TGLS = 7-1]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Hypertrophy	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
[Hyperplasia TGLS = 6-21]			
[Infiltration Cellular TGLS = 6-21]			
Lymph Node	Pancreatic	Hemorrhage	Mild
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Pigmentation	Moderate
	Pancreatic	Pigmentation	Mild
[Hemorrhage TGLS = 3-7]			
[Hyperplasia TGLS = 5-3]			
[Pigmentation TGLS = 3-7]			
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Pancreas		Cyst	
* Parathyroid Gland		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 269

TRT#: 4

SEX: Female

DAY ON TEST: 589

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108427

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland
[Adenoma TGLS = 8-1]

Pars Distalis

Adenoma

* Spleen

Hematopoietic Cell Proliferation

Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 270

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108428

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Infiltration Cellular	Mixed Cell, Moderate
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 1-21]			
[Hyperplasia TGLS = 2-8]			
* Ovary		Cyst	
[Cyst TGLS = 4-7]			
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 271

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108429

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	[Basophilic Focus TGLS = 1-6]		
	[Hepatodiaphragmatic Nodule TGLS = 2-21]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 272

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108430

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	Vagina		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Mild
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-8]			
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 4-6]			
[Hepatodiaphragmatic Nodule TGLS = 5-21]			
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Ectasia	Moderate
		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 6-22]			
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 272

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108430

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Uterus

Hyperplasia

Cystic, Mild

Polyp Stromal

[Polyp Stromal TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 273

TRT#: 4

SEX: Female

DAY ON TEST: 642

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108431

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
Vagina			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Brain		Compression	Marked
[Compression TGLS = 9-1]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
		Infiltration Cellular	Mixed Cell, Minimal
[Hepatodiaphragmatic Nodule TGLS = 10-24]			
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 2-21,3-22]			
[Hyperplasia TGLS = 1-8]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 6-23]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-1]			
* Stomach, Forestomach		Edema	Marked
	Epithelium	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 273

TRT#: 4

DOSE: 3000 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 642

HISTO: 108431

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 7-4]

* Stomach, Glandular

* Urin Bladder

Note: INFUSION ARTIFACT IN URINARY BLADDER.

* Uterus

Note: DECIDUAL REACTION IS ADJACENT TO THE STROMAL POLYP ON SLIDE 7.

[Polyp Stromal TGLS = 5-7]

Ulcer

Moderate

Edema

Mild

Decidual Reaction

Moderate

Polyp Stromal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 274

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108432

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Carcinoma	Metastatic (Pituitary Gland)
		Compression	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
	[Fibroadenoma TGLS = 3-21]		
	[Hyperplasia TGLS = 1-8]		
* Nose		Foreign Body	
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Carcinoma	
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 274

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108432

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-6]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 275

TRT#: 4

SEX: Female

DAY ON TEST: 726

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108433

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
* Brain		Carcinoma	Metastatic (Pituitary Gland)
		Compression	Marked
	[Compression TGLS = 5-1]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	[Basophilic Focus TGLS = 3-6]		
	[Eosinophilic Focus TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Marked
	[Hyperplasia TGLS = 2-8]		
* Pituitary Gland	Pars Distalis	Carcinoma	
	[Carcinoma TGLS = 4-1]		
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 276

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108434

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-1]

* Spleen

Hematopoietic Cell Proliferation

Moderate

* Stomach, Forestomach

Epithelium

Hyperplasia

Moderate

Note: FORESTOMACH HYPERPLASIA (TGL 5) APPEARS TO BE AT THE LIMITING RIDGE.

[Hyperplasia TGLS = 5-23]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 277

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108435

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Mast Cell Tumor Malignant	
Note: MODERATE NUMBER OF POSITIVELY STAINING CELLS WITH TOLUIDINE BLUE STAIN.			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 2-6]			
[Hepatodiaphragmatic Nodule TGLS = 3-21]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 278

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	Peripheral Nerve	* Salivary Glands
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Marked
		Hyperplasia	Focal, Moderate
* Clitoral Gland		Adenoma	
* Eye		Cataract	Marked
	Retina	Degeneration	Marked
	[Cataract TGLS = 3-44]		
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Hepatocyte	Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 5-21]	Hypertrophy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Mild
	[Hyperplasia TGLS = 2-8]		
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-1]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 278

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108436

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Hematopoietic Cell Proliferation

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 279

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108437

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-8]			
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 3-21]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Angiectasis	Marked
	Pars Intermed	Angiectasis	Marked
[Angiectasis TGLS = 4-1]			
[Angiectasis TGLS = 4-1]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 280

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108438

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
Note: CLEAR CELL FOCUS IS ON SLIDE 23.			
		[Eosinophilic Focus TGLS = 3-22]	
		[Hepatodiaphragmatic Nodule TGLS = 5-24]	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		[Infiltration Cellular TGLS = 6-2]	
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
		[Fibroadenoma TGLS = 2-21]	
		[Hyperplasia TGLS = 1-8]	
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 280

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108438

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 281

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108439

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Infiltration Cellular	Mononuclear Cl, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Infiltration Cellular	Mononuclear Cl, Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Marked
[Hyperplasia TGLS = 2-22]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
		Infiltration Cellular	Mononuclear Cl, Moderate
[Cyst TGLS = 3-1]			
* Skin	Subcut Tiss	Schwannoma Benign	
[Schwannoma Benign TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 282

TRT#: 4

SEX: Female

DAY ON TEST: 585

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 108440

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Thyroid Gland C Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 283

TRT#: 4

SEX: Female

DAY ON TEST: 647

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration	Moderate Fatty, Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
* Liver	Bile Duct	Basophilic Focus Hyperplasia Leukemia Mononuclear	Moderate
		[Hyperplasia TGLS = 2-6]	
		[Leukemia Mononuclear TGLS = 2-6]	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-5]	
* Mammary Gland		Hyperplasia	Moderate
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
		[Cyst TGLS = 5-1]	
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-21]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 283

TRT#: 4

SEX: Female

DAY ON TEST: 647

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108441

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 284

TRT#: 4

SEX: Female

DAY ON TEST: 647

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Nose |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|---------------|-------------------------------------|----------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Clitoral Gland | | Cyst | |
| | | Hyperplasia | Mild |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | Kupffer Cell | Pigmentation | Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| | | [Leukemia Mononuclear TGLS = 4-6] | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 5-3] | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Hyperplasia | Moderate |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Cyst | |
| * Skin | Subcut Tiss | Fibroma | |
| | | [Fibroma TGLS = 1-21] | |
| * Spleen | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 3-6] | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 284

TRT#: 4

SEX: Female

DAY ON TEST: 647

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108442

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 285

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108443

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Bone		Osteopetrosis	Mild
[Osteopetrosis TGLS = 7-25]			
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 6-24]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
Note: FIBROADENOMAS ARE PRESENT ON SLIDES 8, 21, AND 22.			
[Fibroadenoma TGLS = 1-21,2-22]			
[Hyperplasia TGLS = 3-8]			
* Nose		Foreign Body	
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 285

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108443

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach

Squamous Cell Papilloma

[Squamous Cell Papilloma TGLS = 5-23]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 286

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Infarct	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	[Basophilic Focus TGLS = 2-6]		
	[Eosinophilic Focus TGLS = 2-6]		
	[Hepatodiaphragmatic Nodule TGLS = 3-21,4-22]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 287

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Hepatodiaphragmatic Nodule	
		Hypertrophy	Minimal
Note: BASOPHILIC FOCI ARE PRESENT ON SLIDES 6 AND 23.			
[Basophilic Focus TGLS = 4-23]			
[Hepatodiaphragmatic Nodule TGLS = 3-22]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-21]			
* Pancreas		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 287

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108445

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 288

TRT#: 4

DOSE: 3000 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 108446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 4-6]			
* Lung		Infiltration Cellular Inflammation	Histiocyte, Minimal Chronic, Minimal
[Infiltration Cellular TGLS = 6-22]			
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 2-8]			
* Pituitary Gland	Pars Distalis Pars Distalis	Angiectasis Cyst	Moderate
[Angiectasis TGLS = 5-1]			
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Polyp Stromal	Multiple
[Polyp Stromal TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 288

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108446

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 289

TRT#: 4

SEX: Female

DAY ON TEST: 639

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 108447

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- * Intestine Small, Jejunum

OBSERVATIONS

- | | | | |
|---|---------------|----------------------------|----------|
| * Bone Marrow | | Leukemia Mononuclear | |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 1-8] | | | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | | Hepatodiaphragmatic Nodule | |
| | Kupffer Cell | Leukemia Mononuclear | |
| [Hepatodiaphragmatic Nodule TGLS = 3-21,4-22] | | Pigmentation | Moderate |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Hyperplasia | Mild |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Angiectasis | Mild |
| | Pars Distalis | Cyst | |
| [Cyst TGLS = 5-1] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 2-6] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 289

TRT#: 4

SEX: Female

DAY ON TEST: 639

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 108447

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Clitoral Gland Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 290

TRT#: 4

SEX: Female

DAY ON TEST: 635

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 108448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
-----------------------------	--------------------------	----------------------------

OBSERVATIONS

* Bone Marrow	Myelofibrosis	Moderate
* Clitoral Gland	Hyperplasia	Mild
* Heart	Cardiomyopathy	Minimal
	Thrombosis	Moderate
[Thrombosis TGLS = 3-12]		
* Liver	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]		
* Lung	Infiltration Cellular	Histiocyte, Mild
	Leukemia Mononuclear	
* Mammary Gland	Hyperplasia	Mild
* Spleen	Fibrosis	Marked
	Leukemia Mononuclear	
* Stomach, Forestomach	Ulcer	Moderate
* Thyroid Gland	C Cell	Adenoma

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Heart Thrombosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 291

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Intestine Large, Rectum * Intestine Small, Duodenum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-8]			
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 3-6]		Eosinophilic Focus	
* Lung		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 292

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Skin

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus Eosinophilic Focus	
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular Inflammation	Minimal Histiocyte, Minimal Chronic, Minimal
* Mammary Gland		Fibroadenoma Hyperplasia	Mild
[Fibroadenoma TGLS = 1-21]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-22]			
* Ovary		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 293

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hemorrhage	Mild
[Hemorrhage TGLS = 2-21]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 294

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland [Hyperplasia TGLS = 1-8]	Hyperplasia	Focal, Mild
* Liver	Basophilic Focus	
* Lung	Infiltration Cellular Inflammation	Histiocyte, Minimal Chronic, Minimal
* Mammary Gland [Hyperplasia TGLS = 2-8]	Hyperplasia	Mild
* Pancreas	Atrophy Cyst	Minimal
* Spleen	Hematopoietic Cell Proliferation	Mild
* Uterus	Hyperplasia Polyp Stromal	Cystic, Minimal

Note: UTERINE STROMAL POLYP IS NECROTIC MAKING TISSUE IDENTIFICATION AND DIAGNOSIS PROBLEMATIC.

[Polyp Stromal TGLS = 3-21]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 295

TRT#: 4

SEX: Female

DAY ON TEST: 653

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	Vagina

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Leukemia Mononuclear	
		Necrosis	Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 4-8]			
* Kidney		Leukemia Mononuclear	
	Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Marked
[Leukemia Mononuclear TGLS = 10-6]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Marked
[Hyperplasia TGLS = 2-8]			
Mesentery		Accessory Spleen	
[Accessory Spleen TGLS = 6-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 295

TRT#: 4

SEX: Female

DAY ON TEST: 653

DOSE: 3000 PPM

DISP: Moribund Sacrifice

HISTO: 108453

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Leukemia Mononuclear Cyst Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 12-1]		
* Skin	Subcut Tiss	Fibroma Squamous Cell Papilloma	
	[Fibroma TGLS = 3-22]		
	[Squamous Cell Papilloma TGLS = 1-21]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Stomach, Glandular		Erosion	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Clitoral Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 296

TRT#: 4

DOSE: 3000 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: 108454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Carcinoma	
Note: CLITORAL GLAND CARCINOMA HAS MARKED SQUAMOUS DIFFERENTIATION.			
[Carcinoma TGLS = 1-8]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
[Basophilic Focus TGLS = 2-6]			
[Hepatodiaphragmatic Nodule TGLS = 3-21,4-22]			
* Lung		Metaplasia	Osseous, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate
[Adenoma TGLS = 5-1]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicle	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 296

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108454

ORGAN AND ACCOUNTABLE SITE STATUS

Follicular Cel

Hyperplasia

Mild

* Urinary Bladder

Transitional Epithelial Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 297

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Mild
[Compression TGLS = 6-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 4-6]		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-21]		Hyperplasia	Marked
[Hyperplasia TGLS = 1-8]			
Mesentery		Accessory Spleen	
[Accessory Spleen TGLS = 3-22]			
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 297

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108455

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 298

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 3000 PPM

DISP: Terminal Sacrifice

HISTO: 108456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Minimal
		[Fibroadenoma TGLS = 1-21,4-22]	
		[Hyperplasia TGLS = 2-8]	
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL 3=NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 299

TRT#: 4

SEX: Female

DAY ON TEST: 661

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 108457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	Vagina

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Cyst	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Leukemia Mononuclear TGLS = 4-6]		
	[Vacuolization Cytoplasmic TGLS = 4-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-2]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
	[Fibroadenoma TGLS = 2-21]		
	[Hyperplasia TGLS = 1-8]		
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 299

TRT#: 4

SEX: Female

DAY ON TEST: 661

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 108457

ORGAN AND ACCOUNTABLE SITE STATUS

Pars Distalis

Cyst

Leukemia Mononuclear

[Adenoma TGLS = 7-1]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-6]

* Stomach, Glandular

Erosion

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 300

TRT#: 4

SEX: Female

DAY ON TEST: 59

DOSE: 3000 PPM

DISP: Natural Death

HISTO: 108458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Liver | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---|------------|----------------------------------|----------|
| * Lung | Serosa | Hyperplasia | Mild |
| Note: THE LUNG SEROSAL HYPERPLASIA WAS ATTRIBUTED TO CHYLOTHORAX (DIAGNOSED AT NECROPSY). | | | |
| [Hyperplasia TGLS = 4-2] | | | |
| Lymph Node | Pancreatic | Hemorrhage | Moderate |
| [Hemorrhage TGLS = 1-7] | | | |
| * Lymph Node, Mesenteric | | Hemorrhage | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 301

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[Fibroadenoma TGLS = 1-21]		
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Hyperplasia	Cystic, Minimal
	[Hyperplasia TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 302

TRT#: 6

SEX: Female

DAY ON TEST: 569

DOSE: 9000 PPM

DISP: Natural Death

HISTO: 108460

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Nose	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Brain		Compression	Marked
		Hemorrhage	Mild
[Compression TGLS = 6-1]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 4-21]			
Lymph Node	Mediastinal	Hemorrhage	Moderate
[Hemorrhage TGLS = 5-3]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-7]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 303

TRT#: 6

DOSE: 9000 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 108461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Hypertrophy	Minimal
		Mixed Cell Focus	
[Basophilic Focus TGLS = 2-6]			
[Clear Cell Focus TGLS = 2-6]			
[Hypertrophy TGLS = 2-6]			
[Mixed Cell Focus TGLS = 2-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Pigmentation	Moderate
[Hemorrhage TGLS = 4-3]			
[Hyperplasia TGLS = 4-3]			
[Pigmentation TGLS = 4-3]			
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014
Time Report Requested: 07:44:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 303	TRT#: 6	SEX: Female	DAY ON TEST: 732
	DOSE: 9000 PPM	DISP: Terminal Sacrifice	HISTO: 108461

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary [Cyst TGLS = 3-7]		Cyst	
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Minimal
[Adenoma TGLS = 5-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 304

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108462

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
* Ovary		Cyst	
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 3-1]			
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 304

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108462

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 305

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Clitoral Gland		Hyperplasia	Focal, Moderate
[Hyperplasia TGLS = 5-8]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 3-22,4-23]		Hyperplasia	Marked
[Hyperplasia TGLS = 2-8]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			
* Salivary Glands		Atrophy	Minimal
* Skin		Hyperkeratosis	Marked
	Epidermis	Hyperplasia	Moderate
		Inflammation	Chronic, Mild
[Hyperkeratosis TGLS = 1-21]			
[Hyperplasia TGLS = 1-21]			
[Inflammation TGLS = 1-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 305

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108463

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicle	Cyst	
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 6-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 306

TRT#: 6

SEX: Female

DAY ON TEST: 666

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 2-22]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 307

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108465

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- | | |
|------------------|--------------------------|
| * Clitoral Gland | * Lymph Node, Mandibular |
|------------------|--------------------------|

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|---------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Marked |
| | | Hypertrophy | Focal, Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | [Hepatodiaphragmatic Nodule TGLS = 2-21] | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Cyst | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 308

TRT#: 6

SEX: Female

DAY ON TEST: 563

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108466

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
Tooth	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Liver		Basophilic Focus	
* Lung	Hepatocyte	Hypertrophy	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
Lymph Node	Deep Cervical	Ectasia	Marked
[Ectasia TGLS = 1-21]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Moderate
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 2-22]			

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 309

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Focal, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		[Hepatodiaphragmatic Nodule TGLS = 5-23]	
		[Leukemia Mononuclear TGLS = 4-6]	
* Lung		Foreign Body	
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
		Leukemia Mononuclear	
Lymph Node	Mediastinal		
		[Leukemia Mononuclear TGLS = 6-3]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Moderate
		[Hyperplasia TGLS = 1-8]	
Mesentery		Accessory Spleen	
	Fat	Necrosis	Mild
		[Accessory Spleen TGLS = 3-22]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 309

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108467

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 2-21]

* Pancreas

Cyst

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 7-1]

* Spleen

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 310

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Degeneration	Fatty, Minimal
* Liver	Basophilic Focus	
	Infiltration Cellular	Mixed Cell, Mild
	Mixed Cell Focus	
[Mixed Cell Focus TGLS = 3-22]		
* Lung	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric	Hemorrhage	Minimal
* Mammary Gland	Fibroadenoma	
	Hyperplasia	Moderate
[Fibroadenoma TGLS = 1-21]		
[Hyperplasia TGLS = 2-8]		
* Ovary	Cyst	
* Spleen	Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 311

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Moderate
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Hyperplasia	Minimal
[Hyperplasia TGLS = 1-8]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hyperplasia	Cystic, Moderate
		Polyp Stromal	
[Hyperplasia TGLS = 2-7]			
[Polyp Stromal TGLS = 3-21]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 312

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hypertrophy	Focal, Minimal
* Bone Marrow		Infiltration Cellular	Histiocyte, Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-8]			
* Heart		Cardiomyopathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 313

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Hepatocyte	Hypertrophy	Minimal
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
		[Hyperplasia TGLS = 2-8]	
* Ovary		Tubulostromal Adenoma	
* Spleen		Leukemia Mononuclear	
* Uterus		Polyp Stromal	
		[Polyp Stromal TGLS = 1-7]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 314

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108472

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Mild
* Clitoral Gland		Hyperplasia	Focal, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
	[Clear Cell Focus TGLS = 3-6]		
	[Hepatodiaphragmatic Nodule TGLS = 5-22]		
	[Mixed Cell Focus TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Minimal
	[Hyperplasia TGLS = 1-8]		
* Pancreas		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 314

TRT#: 6

DOSE: 9000 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 108472

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 315

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 5-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Pigmentation	Moderate
[Hemorrhage TGLS = 6-3]			
[Pigmentation TGLS = 6-3]			
* Mammary Gland		Hyperplasia	Minimal
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 7-1]			
* Salivary Glands		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Polyp Stromal	Multiple
[Polyp Stromal TGLS = 2-7,3-21,4-21]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 316

TRT#: 6

DOSE: 9000 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: 108474

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland [Hyperplasia TGLS = 1-8]		Hyperplasia	Focal, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Cyst Eosinophilic Focus	
* Lung [Infiltration Cellular TGLS = 5-2] [Inflammation TGLS = 5-2]		Infiltration Cellular Inflammation	Histiocyte, Minimal Chronic, Minimal
* Mammary Gland Mesentery [Accessory Spleen TGLS = 4-21]		Hyperplasia Accessory Spleen	Marked
* Ovary [Cyst TGLS = 2-7]		Cyst	
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 316

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108474

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLS = 3-22]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 317

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Minimal
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
		Metaplasia	Osseous, Minimal
		[Infiltration Cellular TGLS = 3-21]	
* Mammary Gland		Hyperplasia	Moderate
		[Hyperplasia TGLS = 1-8]	
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
		[Cyst TGLS = 4-1]	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 317

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108475

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 318

TRT#: 6

SEX: Female

DAY ON TEST: 13

DOSE: 9000 PPM

DISP: Natural Death

HISTO: 108476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic |
| * Kidney | * Liver | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- * Intestine Small, Jejunum

OBSERVATIONS

- | | | | |
|--------|--------|-------------|------|
| * Lung | Serosa | Hyperplasia | Mild |
|--------|--------|-------------|------|

Note: THE LUNG SEROSAL HYPERPLASIA WAS ATTRIBUTED TO CHYLOTHORAX (DIAGNOSED AT NECROPSY).

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 319

TRT#: 6

SEX: Female

DAY ON TEST: 652

DOSE: 9000 PPM

DISP: Natural Death

HISTO: 108477

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Hyperplasia	Focal, Mild
* Bone Marrow		Hyperplasia	Moderate
* Kidney	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
	Centrilobular	Necrosis	Mild
* Lung		Hemangiosarcoma	Metastatic (Spleen)
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
[Hemorrhage TGLS = 3-3]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Minimal
* Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Marked
[Hemangiosarcoma TGLS = 2-21]			
* Stomach, Glandular		Erosion	Moderate
[Erosion TGLS = 5-4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 319

TRT#: 6

SEX: Female

DAY ON TEST: 652

DOSE: 9000 PPM

DISP: Natural Death

HISTO: 108477

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Hemangiosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 320

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Degeneration Hyperplasia Cyst	Moderate Fatty, Minimal Focal, Minimal
* Clitoral Gland [Cyst TGLS = 5-23]			
* Liver		Basophilic Focus Eosinophilic Focus Infiltration Cellular	Histiocyte, Minimal
* Lung		Fibroadenoma Hyperplasia	Moderate
* Mammary Gland [Fibroadenoma TGLS = 2-21] [Hyperplasia TGLS = 4-8]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland [Adenoma TGLS = 8-1] [Cyst TGLS = 8-1]	Pars Distalis Pars Distalis	Adenoma Cyst	
* Skin [Fibroma TGLS = 3-22]	Subcut Tiss	Fibroma	
* Spleen		Hematopoietic Cell Proliferation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 320

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108478

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus
[Thymoma Benign TGLS = 7-3]

Thymoma Benign

* Uterus
[Polyp Stromal TGLS = 6-24]

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 321

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Mild
[Angiectasis TGLS = 3-6]			
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 2-21]			
[Hyperplasia TGLS = 1-8]			
* Ovary		Cyst	
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 321

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108479

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 322

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Liver		Basophilic Focus	
	Hepatocyte	Hypertrophy	Minimal
		Leukemia Mononuclear	
[Basophilic Focus TGLS = 3-6]			
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 323

TRT#: 6

DOSE: 9000 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: 108481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|----------------------------------|---------------|------------------------|------------------|
| * Adrenal Cortex | | Degeneration | Fatty, Moderate |
| | | Hypertrophy | Focal, Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Cyst | |
| | | Nephropathy | Minimal |
| [Cyst TGLS = 2-21] | | | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Hepatocyte | Degeneration | Minimal |
| | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | |
| | Hepatocyte | Hypertrophy | Mild |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLS = 5-23] | | | |
| [Mixed Cell Focus TGLS = 4-22] | | | |
| * Lung | | Inflammation | Chronic, Minimal |
| * Mammary Gland | | Hyperplasia | Marked |
| [Hyperplasia TGLS = 1-8] | | | |
| * Pituitary Gland | Pars Distalis | Cyst | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 323

TRT#: 6

DOSE: 9000 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: 108481

ORGAN AND ACCOUNTABLE SITE STATUS

Pars Distalis

Hyperplasia

Focal, Mild

* Uterus

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 324

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108482

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
Note: MIXED CELL FOCUS IS ON SLIDE 22.			
[Hepatodiaphragmatic Nodule TGLS = 3-22]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 1-21,4-23,5-24]			
[Hyperplasia TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 325

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
* Lung	Hepatocyte	Hypertrophy	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 2-8]			
* Pancreas		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-21]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 326

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
	[Eosinophilic Focus TGLS = 1-6]		
	[Hypertrophy TGLS = 1-6]		
* Lung		Hemorrhage	Mild
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-1]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 327

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Pituitary Gland	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Minimal
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Minimal
	[Eosinophilic Focus TGLS = 4-22]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
	[Fibroadenoma TGLS = 1-21]		
* Ovary		Cyst	
	[Cyst TGLS = 2-7]		
* Pancreas		Atrophy	Mild
* Salivary Glands		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLS = 3-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 327

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108485

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 328

TRT#: 6

DOSE: 9000 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 108486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Clitoral Gland		Adenoma	
* Liver	Hepatocyte	Basophilic Focus	
		Degeneration	Minimal
	Hepatocyte	Eosinophilic Focus	
		Hypertrophy	Mild
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 3-21]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Metaplasia	Osseous, Minimal
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 2-8]			
* Nose		Foreign Body	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 4-22]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus		Hyperplasia	Cystic, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 328

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108486

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 329

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Adrenal Medulla	* Lymph Node, Mandibular
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OBSERVATIONS

* Clitoral Gland		Hyperplasia	Focal, Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
[Clear Cell Focus TGLS = 3-21]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Hyperplasia	Mild
* Ovary		Cyst	
[Cyst TGLS = 1-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
[Adenoma TGLS = 2-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 330

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108488

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye		Cataract	Mild
	Retina	Degeneration	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
	[Clear Cell Focus TGLS = 3-22]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Moderate
	[Hyperplasia TGLS = 1-8]		
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 330

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108488

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLS = 4-1]

* Spleen

Hematopoietic Cell Proliferation

Mild

* Thymus

Cyst

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 331

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Mild
	[Basophilic Focus TGLS = 4-6]		
	[Eosinophilic Focus TGLS = 5-23]		
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
	[Fibroadenoma TGLS = 1-21,2-22]		
* Pituitary Gland	Pars Distalis	Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 332

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
	Hepatocyte	Hypertrophy	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Fibroma	
	Myometrium	Hypertrophy	Moderate

[Hypertrophy TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 333

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
		Hyperplasia	Moderate
* Mammary Gland			
[Hyperplasia TGLS = 1-8]			
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 334

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108492

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Mild
	[Hyperplasia TGLS = 3-21]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
* Ovary	Corpus Luteum	Vacuolization Cytoplasmic	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hyperplasia	Cystic, Marked
		Leiomyoma	
		Polyp Stromal	

Note: THE LEIOMYOMA IS ON SLIDE 22 WITH THE STROMAL POLYP.

[Hyperplasia TGLS = 2-7]

[Polyp Stromal TGLS = 1-22]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 334

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108492

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 335

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108493

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Hepatocyte	Hypertrophy	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
	[Hepatodiaphragmatic Nodule TGLS = 2-21]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 336

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108494

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
[Compression TGLS = 6-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
		Mixed Cell Focus	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Ovary		Cyst	
[Cyst TGLS = 2-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 336

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108494

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

[Hematopoietic Cell Proliferation TGLS = 5-6]

[Leukemia Mononuclear TGLS = 5-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 337

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108495

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Angiectasis Degeneration	Marked Fatty, Moderate
[Angiectasis TGLS = 5-10]			
[Degeneration TGLS = 5-10]			
* Brain		Carcinoma Compression	Metastatic (Pituitary Gland) Moderate
[Carcinoma TGLS = 8-1]			
[Compression TGLS = 7-1]			
* Liver	Hepatocyte	Basophilic Focus Degeneration	Mild
	Hepatocyte	Eosinophilic Focus Hypertrophy	Minimal
	Hepatocyte	Infiltration Cellular Vacuolization Cytoplasmic	Mixed Cell, Moderate Moderate
[Basophilic Focus TGLS = 4-22]			
[Eosinophilic Focus TGLS = 4-22]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma Hyperplasia	Marked
[Fibroadenoma TGLS = 2-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014
Time Report Requested: 07:44:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 337	TRT#: 6	SEX: Female	DAY ON TEST: 732
	DOSE: 9000 PPM	DISP: Terminal Sacrifice	HISTO: 108495

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 1-8]			
* Nose		Foreign Body	
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 6-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 338

TRT#: 6

SEX: Female

DAY ON TEST: 663

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain	Astrocytoma Malignant	
[Astrocytoma Malignant TGLS = 2-1]		
* Liver	Basophilic Focus	
	Eosinophilic Focus	
	Leukemia Mononuclear	
* Mammary Gland	Hyperplasia	Minimal
* Ovary	Cyst	
* Spleen	Hematopoietic Cell Proliferation	Mild
	Leukemia Mononuclear	
* Uterus	Hyperplasia	Cystic, Mild
	Polyp Stromal	
[Polyp Stromal TGLS = 1-7]		

PRIMARY CAUSE OF DEATH - Brain Astrocytoma Malignant
 CONTRIBUTORY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 339

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108497

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Nose
* Ovary	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Liver	Hepatocyte	Basophilic Focus Hypertrophy Infiltration Cellular	Minimal Mixed Cell, Mild Histiocyte, Minimal
* Lung		Infiltration Cellular	
* Mammary Gland		Fibroadenoma Hyperplasia	Multiple Minimal
[Fibroadenoma TGLS = 1-21,2-22]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 340

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108498

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Esophagus	* Lymph Node, Mandibular
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OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
	Hepatocyte	Eosinophilic Focus	
		Hypertrophy	Mild
		[Basophilic Focus TGLS = 2-6]	
		[Eosinophilic Focus TGLS = 2-6]	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
		[Hyperplasia TGLS = 1-8]	
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate
* Salivary Glands		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 341

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108499

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-7]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Moderate
* Nose		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 342

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108500

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 1-21]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Minimal
		Infiltration Cellular	Mixed Cell, Moderate
[Basophilic Focus TGLS = 4-6]			
[Eosinophilic Focus TGLS = 4-6]			
[Infiltration Cellular TGLS = 4-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 2-8]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
[Adenoma TGLS = 6-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 342

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108500

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 343

TRT#: 6

DOSE: 9000 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 474

HISTO: 108501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
	Kupffer Cell	Pigmentation	Mild
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic, Marked
	[Infiltration Cellular TGLS = 4-2]		
	[Inflammation TGLS = 4-2]		
* Mammary Gland		Hyperplasia	Mild
* Ovary		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
* Skin		Cyst Epithelial Inclusion	
	[Cyst Epithelial Inclusion TGLS = 5-21]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
	[Hematopoietic Cell Proliferation TGLS = 2-6]		
	[Leukemia Mononuclear TGLS = 2-6]		
* Stomach, Forestomach		Edema	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 343

TRT#: 6

SEX: Female

DAY ON TEST: 474

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108501

ORGAN AND ACCOUNTABLE SITE STATUS

Epithelium

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 344

TRT#: 6

SEX: Female

DAY ON TEST: 565

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Brain		Granular Cell Tumor Benign	
[Granular Cell Tumor Benign TGLS = 7-1]			
* Liver		Hemorrhage	Mild
	Bile Duct	Hyperplasia	Minimal
[Hemorrhage TGLS = 3-21]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Carcinoma	
		Hyperplasia	Moderate
[Carcinoma TGLS = 4-22]			
Oral Mucosa		Ulcer	Marked
[Ulcer TGLS = 5-9]			
* Ovary		Cyst	
* Pituitary Gland	Pars Distalis	Carcinoma	
[Carcinoma TGLS = 6-1]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Hyperplasia	Cystic, Moderate
		Inflammation	Suppurative, Moderate
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 344

TRT#: 6

SEX: Female

DAY ON TEST: 565

DOSE: 9000 PPM

DISP: Moribund Sacrifice

HISTO: 108502

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Mammary Gland Carcinoma; Oral Mucosa Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 345

TRT#: 6

DOSE: 9000 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 108503

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 3-10]			
* Clitoral Gland		Inflammation	Chronic, Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Hypertrophy	Minimal
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 4-6]			
[Hypertrophy TGLS = 4-6]			
[Infiltration Cellular TGLS = 4-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 2-8]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 345

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108503

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 346

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108504

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicle	Cyst	
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 347

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108505

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Mild
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 5-22]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
[Hyperplasia TGLS = 1-21,2-8]			
* Pancreas	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 6-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Polyp Stromal	Multiple
[Polyp Stromal TGLS = 3-7,4-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 348

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108506

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	Vagina

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hypertrophy	Focal, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
* Lung	Hepatocyte	Hypertrophy	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-21]			
* Ovary		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 4-22]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 348

TRT#: 6

DOSE: 9000 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 108506

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 349

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
[Adenoma TGLS = 2-10]			
* Bone Marrow		Infiltration Cellular	Mixed Cell, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Minimal
* Lung		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
* Ovary		Cyst	
[Cyst TGLS = 3-7]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 350

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
	Hepatocyte	Eosinophilic Focus	
		Hypertrophy	Minimal
	[Basophilic Focus TGLS = 2-21]		
* Lung		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
	[Hyperplasia TGLS = 4-8]		
* Ovary		Cyst	
	[Cyst TGLS = 1-7]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-1]		
* Salivary Glands		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 350

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 9000 PPM

DISP: Terminal Sacrifice

HISTO: 108508

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 351

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Degeneration	Minimal
	Hepatocyte	Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 5-22]	Hypertrophy	Mild
* Lung		Hemorrhage	Moderate
	Note: THE LUNG HEMORRHAGE IS PRIMARILY PERIVASCULAR.		
* Mammary Gland		Hyperplasia	Moderate
* Nose		Foreign Body	
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Cyst	
	Pars Intermed	Cyst	
	[Angiectasis TGLS = 4-1]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus		Hyperplasia	Cystic, Minimal
	[Hyperplasia TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 352

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108510

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Brain		Granular Cell Tumor Benign	
Note: GRANULAR CELL TUMOR IS VERY SMALL AND APPEARS TO BE AN EARLY STAGE.			
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Degeneration	Mild
		Eosinophilic Focus	
	Hepatocyte	Hepatodiaphragmatic Nodule	
		Hypertrophy	Mild
		[Eosinophilic Focus TGLS = 6, 21]	
		[Hepatodiaphragmatic Nodule TGLS = 2-21]	
		[Hypertrophy TGLS = 1-6]	
* Lung		Hemorrhage	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 3-1]	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 353

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hyperplasia	Focal, Minimal
* Clitoral Gland		Fibrosarcoma	
* Heart		Cardiomyopathy	Minimal
* Liver	Hepatocyte	Degeneration	Minimal
	Hepatocyte	Hepatocellular Adenoma	
		Hypertrophy	Minimal
		Mixed Cell Focus	
		[Hepatocellular Adenoma TGLS = 3-23]	
		[Mixed Cell Focus TGLS = 2-22]	
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 1-21]	
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 353

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108511

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 354

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Minimal
[Eosinophilic Focus TGLS = 1-6]			
* Lung		Hemorrhage	Marked
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
[Adenoma TGLS = 2-1]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 355

TRT#: 8

SEX: Female

DAY ON TEST: 122

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 108513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Liver | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---|--------|-------------|----------|
| * Lung | Serosa | Hyperplasia | Mild |
| Note: THE LUNG SEROSAL HYPERPLASIA WAS ATTRIBUTED TO CHYLOTHORAX (EVIDENT AT NECROPSY). | | | |
| [Hyperplasia TGLS = 3-2] | | | |
| * Lymph Node, Mesenteric | | Hemorrhage | Moderate |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 356

TRT#: 8

SEX: Female

DAY ON TEST: 684

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-21]		
	[Leukemia Mononuclear TGLS = 7-3]		
	[Leukemia Mononuclear TGLS = 3-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-23]		
* Mammary Gland		Hyperplasia	Moderate
* Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 356

TRT#: 8

SEX: Female

DAY ON TEST: 684

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108514

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Cyst

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 9-1]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-22]

* Thymus

Leukemia Mononuclear

* Uterus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 357

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Minimal
	Hepatocyte	Hypertrophy	Mild
	[Hypertrophy TGLS = 2-6]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
* Pancreas		Cyst	
* Uterus		Hyperplasia	Cystic, Minimal
	[Polyp Stromal TGLS = 1-7]	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 358

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Marked
* Brain		Compression	Moderate
[Compression TGLS = 4-1]			
* Liver	Hepatocyte	Degeneration	Mild
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Moderate
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 2-21,3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 359

TRT#: 8

SEX: Female

DAY ON TEST: 575

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108517

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Necrosis	Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Marked
* Brain		Hemorrhage	Marked
		Necrosis	Marked
	[Hemorrhage TGLS = 3-1]		
	[Necrosis TGLS = 3-1]		
* Kidney		Nephropathy	Minimal
* Liver		Cyst	
		Leukemia Mononuclear	
	Kupffer Cell	Pigmentation	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
	Note: ALVEOLAR EPITHELIAL HYPERPLASIA IS ASSOCIATED WITH AREAS OF LEUKEMIA INFILTRATE.		
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		
* Stomach, Forestomach		Edema	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 359

TRT#: 8

SEX: Female

DAY ON TEST: 575

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108517

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular
[Ulcer TGLS = 4-21]

Ulcer

Moderate

Ulcer

Mild

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 360

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Bone Marrow		Hyperplasia	Moderate
Note: THE BONE MARROW HYPERPLASIA IS A FOCAL CHANGE.			
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Mild
[Eosinophilic Focus TGLS = 1-21]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 361

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Hypertrophy	Mild
[Hypertrophy TGLS = 2-6]			
* Lung		Hemorrhage	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Cyst	
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 362

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
	Hepatocyte	Hypertrophy	Mild
	[Hypertrophy TGLS = 4-22]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 2-21,6-23]	Hyperplasia	Marked
	[Hyperplasia TGLS = 1-8]		
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Intermed	Angiectasis	Mild
	Pars Distalis	Cyst	
	[Angiectasis TGLS = 5-1]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus		Adenoma	
	[Adenoma TGLS = 7-24]	Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 362

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108520

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 363

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Adenoma	
* Eye		Cataract	Moderate
	Retina	Degeneration	Marked
[Cataract TGLS = 1-44]			
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Minimal
		Eosinophilic Focus	
	Hepatocyte	Hepatodiaphragmatic Nodule	
[Eosinophilic Focus TGLS = 3-21]		Hypertrophy	Mild
[Hepatodiaphragmatic Nodule TGLS = 4-22]			
* Mammary Gland		Hyperplasia	Minimal
* Ovary		Cyst	
[Cyst TGLS = 2-7]			
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 363

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108521

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 364

TRT#: 8

SEX: Female

DAY ON TEST: 726

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108522

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Mild
* Brain		Compression	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-7]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-5]			
* Mammary Gland		Hyperplasia	Marked
* Ovary		Leukemia Mononuclear	
* Pancreas		Atrophy	Minimal
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 5-1]			
* Spleen		Hemorrhage	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 364

TRT#: 8

SEX: Female

DAY ON TEST: 726

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108522

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

Necrosis

Marked

[Hemorrhage TGLS = 1-21]

[Leukemia Mononuclear TGLS = 6-21]

[Necrosis TGLS = 1-21]

* Stomach, Forestomach

Leukemia Mononuclear

* Thymus

Leukemia Mononuclear

* Uterus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Cyst

Animal Note: THE MONONUCLEAR LEUKEMIA IS ATYPICAL AND HAS THE APPEARANCE OF MALIGNANT LYMPHOMA IN SOME TISSUES (LIVER, LUNG, LYMPH NODE).

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 365

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
	Hepatocyte	Hypertrophy	Mild
[Basophilic Focus TGLS = 3-6]			
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 4-3]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Minimal
[Hyperplasia TGLS = 1-8]			
* Ovary		Cyst	
[Cyst TGLS = 2-7]			
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Cyst	
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 365

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108523

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 366

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
--------------------------	---------------------

INSUFFICIENT TISSUE

* Intestine Large, Cecum

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Mild
		Hypertrophy	Focal, Mild
* Harderian Gland		Inflammation	Chronic, Mild
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Basophilic Focus	
		Degeneration	Minimal
	Hepatocyte	Eosinophilic Focus	
		Hypertrophy	Minimal
		Infiltration Cellular	Mixed Cell, Mild
[Eosinophilic Focus TGLS = 2-6]			
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Minimal
[Hyperplasia TGLS = 1-8]			
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 366

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108524

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 367

TRT#: 8

SEX: Female

DAY ON TEST: 701

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Salivary Glands	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Mild
		Infiltration Cellular	Mixed Cell, Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Intermed	Angiectasis	Moderate
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate
	[Angiectasis TGLS = 3-1]		
Skeletal Muscle		Hemorrhage	Marked
	[Hemorrhage TGLS = 5-23]		
* Skin		Edema	Marked
	[Edema TGLS = 4-22]		
* Spleen		Fibrosis	Mild
	[Fibrosis TGLS = 2-21]		

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 367

TRT#: 8

SEX: Female

DAY ON TEST: 701

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108525

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 368

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hypertrophy	Focal, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Mild
* Lung		Hemorrhage	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Ovary		Cyst	
[Cyst TGLS = 1-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
[Adenoma TGLS = 2-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 369

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108527

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 4-44,5-44]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Mild
		Eosinophilic Focus	
	Hepatocyte	Hepatocellular Adenoma	
[Basophilic Focus TGLS = 3-6]		Hypertrophy	Moderate
[Eosinophilic Focus TGLS = 3-6]			
[Hepatocellular Adenoma TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
Note: MAMMARY GLAND HYPERPLASIA IS MOST SEVERE ON SLIDE 21.			
[Fibroadenoma TGLS = 2-21]			
[Hyperplasia TGLS = 1-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

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First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 369

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108527

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Cyst

Pars Distalis

Hyperplasia

Focal, Mild

* Spleen

Hematopoietic Cell Proliferation

Mild

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 370

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Hypertrophy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
		[Hyperplasia TGLS = 1-8]	
* Nose		Foreign Body	
* Pancreas		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 371

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Minimal
* Brain		Compression	Minimal
[Compression TGLS = 8-1]			
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Jejunum	Epithelium	Hyperplasia	Moderate
[Hyperplasia TGLS = 9-24]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Mild
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Moderate
[Basophilic Focus TGLS = 3-6]			
[Eosinophilic Focus TGLS = 6-22]			
[Hypertrophy TGLS = 3-6]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
[Fibroadenoma TGLS = 2-21]			
[Hyperplasia TGLS = 1-8]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 371

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108529

ORGAN AND ACCOUNTABLE SITE STATUS

Pars Distalis

Cyst

[Adenoma TGLS = 7-1]

* Spleen

Hematopoietic Cell Proliferation

Moderate

* Uterus

Polyp Stromal

Multiple

[Polyp Stromal TGLS = 4-23,5-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 372

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Infiltration Cellular	Histiocyte, Moderate
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Basophilic Focus	
		Degeneration	Mild
	Hepatocyte	Eosinophilic Focus	
		Hypertrophy	Mild
		Infiltration Cellular	Mixed Cell, Mild
[Eosinophilic Focus TGLS = 5-22]			
* Lung		Infiltration Cellular	Histiocyte, Mild
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Pigmentation	Moderate
[Hemorrhage TGLS = 4-3]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
[Fibroadenoma TGLS = 2-21]			
[Hyperplasia TGLS = 1-8]			
* Pancreas		Cyst	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Infiltration Cellular	Mixed Cell, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 372

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108530

ORGAN AND ACCOUNTABLE SITE STATUS

[Infiltration Cellular TGLS = 3-6]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 373

TRT#: 8

SEX: Female

DAY ON TEST: 716

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108531

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Parathyroid Gland
* Skin	* Thymus	* Trachea	* Urinary Bladder
Vagina			

MISSING

* Harderian Gland	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Degeneration	Fatty, Moderate
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Marked
	[Leukemia Mononuclear TGLS = 7-6]		
	[Vacuolization Cytoplasmic TGLS = 7-6]		
* Lung		Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-3]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Carcinoma	
		Fibroadenoma	
		Hyperplasia	Marked
	[Carcinoma TGLS = 4-23]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 373

TRT#: 8

SEX: Female

DAY ON TEST: 716

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108531

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 11-25]

[Hyperplasia TGLS = 1-21,3-22,5-24]

* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 10-1]		
* Salivary Glands		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
	[Hematopoietic Cell Proliferation TGLS = 6-6]		
	[Leukemia Mononuclear TGLS = 6-6]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Ulcer	Minimal
* Stomach, Glandular		Erosion	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 374

TRT#: 8

SEX: Female

DAY ON TEST: 641

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 108532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Ovary
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver	Kupffer Cell	Pigmentation	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 1-2]			
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
* Spleen	Lymph Follic	Atrophy	Moderate
* Stomach, Glandular		Erosion	Moderate
[Erosion TGLS = 2-21]			

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 375

TRT#: 8

SEX: Female

DAY ON TEST: 568

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108533

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Harderian Gland [Inflammation TGLS = 3-12]		Inflammation	Chronic, Mild
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Minimal
	Hepatocyte	Hypertrophy	Mild
* Mammary Gland Note: THERE IS MINIMAL GLANDULAR COMPONENT IN THE FIBROADENOMA. [Fibroadenoma TGLS = 1-21]		Fibroadenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 376

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Basophilic Focus	
		Degeneration	Mild
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Moderate
	[Eosinophilic Focus TGLS = 5-22]		
	[Hepatocellular Adenoma TGLS = 7-24]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
	[Fibroadenoma TGLS = 2-21]		
	[Hyperplasia TGLS = 1-8,8-25]		
* Ovary		Cyst	
	[Cyst TGLS = 4-7]		
* Pancreas		Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 376

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108534

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Angiectasis

Moderate

Pars Distalis

Cyst

Pars Intermed

Cyst

* Spleen

Hematopoietic Cell Proliferation

Mild

* Uterus

Hyperplasia

Cystic, Mild

Polyp Stromal

[Hyperplasia TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 377

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Hypertrophy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
		Metaplasia	Osseous, Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 5-3]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Pancreas		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Cervix	Cyst	Squamous, Moderate
		Hyperplasia	Cystic, Moderate
		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 377

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108535

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 4-22]

[Hyperplasia TGLS = 2-7]

[Polyp Stromal TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 378

TRT#: 8

SEX: Female

DAY ON TEST: 716

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108536

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Mammary Gland		Carcinoma	
		Hyperplasia	Moderate
	[Carcinoma TGLS = 1-21]		
* Pancreas		Cyst	
	Acinus	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Minimal
	[Cyst TGLS = 3-1]		
	[Hyperplasia TGLS = 3-1]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 379

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Hepatocyte	Hypertrophy	Moderate
		Infiltration Cellular	Mixed Cell, Moderate
	[Hepatocellular Adenoma TGLS = 2-21]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Hyperplasia	Moderate
	[Hyperplasia TGLS = 1-8]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Adenocarcinoma	
	[Adenocarcinoma TGLS = 3-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 380

TRT#: 8

SEX: Female

DAY ON TEST: 718

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Necrosis	Mild
Note: ADRENAL CORTICAL NECROSIS IS DIFFUSE.			
* Brain		Compression	Marked
[Compression TGLS = 6-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
[Eosinophilic Focus TGLS = 3-6]			
* Mammary Gland		Infiltration Cellular	Mixed Cell, Moderate
[Hyperplasia TGLS = 1-8]			
* Pancreas		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Atrophy	Minimal
[Adenoma TGLS = 5-1]			
* Spleen		Adenoma	
* Stomach, Forestomach		Hematopoietic Cell Proliferation	Mild
		Edema	Marked
	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked
[Ulcer TGLS = 4-4]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 380

TRT#: 8

SEX: Female

DAY ON TEST: 718

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108538

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 381

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Hepatocellular Adenoma	
	[Hepatocellular Adenoma TGLS = 2-21]	Hypertrophy	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Ovary		Cyst	
	[Cyst TGLS = 1-7]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 382

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108540

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Angiectasis	Moderate
		Degeneration	Fatty, Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Degeneration	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Hepatocyte	Hypertrophy	Mild
		Mixed Cell Focus	
Note: MIXED CELL FOCI ARE ON SLIDE 22.			
			[Hepatodiaphragmatic Nodule TGLS = 4-22]
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Mammary Gland		Adenoma	
		Hyperplasia	Moderate
			[Adenoma TGLS = 1-21]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 382

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108540

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary

[Cyst TGLS = 2-7]

Cyst

* Pancreas

Cyst

* Pituitary Gland

Pars Distalis

Angiectasis

Mild

* Spleen

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 383

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Degeneration	Minimal
	Hepatocyte	Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 1-21]	Hypertrophy	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 384

TRT#: 8

SEX: Female

DAY ON TEST: 678

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 6-10]			
* Adrenal Medulla		Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 6-10]			
* Bone Marrow		Leukemia Granulocytic	
		Myelofibrosis	Marked
* Brain		Hemorrhage	Moderate
[Hemorrhage TGLS = 11-1]			
* Heart		Leukemia Granulocytic	
* Intestine Large, Cecum		Edema	Mild
* Kidney		Leukemia Granulocytic	
	Renal Tubule	Necrosis	Moderate
		Nephropathy	Minimal
* Liver		Leukemia Granulocytic	
	Kupffer Cell	Pigmentation	Moderate
[Leukemia Granulocytic TGLS = 5-6]			
[Pigmentation TGLS = 5-6]			
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Granulocytic	
[Hemorrhage TGLS = 10-2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 384

TRT#: 8

SEX: Female

DAY ON TEST: 678

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108542

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Granulocytic TGLS = 10-2]

Lymph Node

Mediastinal

Leukemia Granulocytic

Pancreatic

Leukemia Granulocytic

[Leukemia Granulocytic TGLS = 9-3]

[Leukemia Granulocytic TGLS = 4-7]

* Lymph Node, Mesenteric

Leukemia Granulocytic

[Leukemia Granulocytic TGLS = 7-5]

* Mammary Gland

Fibroadenoma

Hyperplasia

Moderate

[Fibroadenoma TGLS = 3-22]

* Pancreas

Leukemia Granulocytic

* Pituitary Gland

Pars Distalis

Cyst

* Spleen

Leukemia Granulocytic

* Stomach, Forestomach

Leukemia Granulocytic

[Leukemia Granulocytic TGLS = 8-23]

* Stomach, Glandular

Leukemia Granulocytic

PRIMARY CAUSE OF DEATH

- Bone Marrow Leukemia Granulocytic

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 385

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108543

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Marked
[Eosinophilic Focus TGLS = 1-6]			
[Hypertrophy TGLS = 1-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 2-1]			
* Salivary Glands		Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 386

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Degeneration	Fatty, Moderate
		Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic, Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Minimal
[Basophilic Focus TGLS = 3-6]			
[Eosinophilic Focus TGLS = 3-6]			
[Hypertrophy TGLS = 3-6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Ectasia	Moderate
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
Skeletal Muscle		Inflammation	Suppurative, Marked
[Inflammation TGLS = 5-23]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicle	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 386

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108544

ORGAN AND ACCOUNTABLE SITE STATUS

Tongue

Inflammation

Granulomatous, Marked

Squamous Cell Papilloma

[Squamous Cell Papilloma TGLS = 4-22]

* Urin Bladder

Note: INFUSION ARTIFACT IN URINARY BLADDER.

* Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 387

TRT#: 8

SEX: Female

DAY ON TEST: 563

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Moderate
* Intestine Large, Cecum		Edema	Moderate
* Kidney		Glomerulosclerosis	Moderate
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
		[Glomerulosclerosis TGLS = 4-5]	
		[Nephropathy TGLS = 4-5]	
		[Pigmentation TGLS = 4-5]	
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		[Hepatodiaphragmatic Nodule TGLS = 10-22]	
		[Hyperplasia TGLS = 6-6]	
		[Leukemia Mononuclear TGLS = 6-6,8-6]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014
Time Report Requested: 07:44:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 387

TRT#: 8

SEX: Female

DAY ON TEST: 563

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108545

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Leukemia Mononuclear

Fibrosis

Moderate

Hematopoietic Cell Proliferation

Moderate

Leukemia Mononuclear

[Fibrosis TGLS = 3-21,9-21]

[Hematopoietic Cell Proliferation TGLS = 2-6]

[Leukemia Mononuclear TGLS = 2-6]

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 5-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 388

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Infiltration Cellular	Histiocyte, Mild
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Basophilic Focus	
		Degeneration	Minimal
	Hepatocyte	Hepatocellular Adenoma	
		Hypertrophy	Marked
		Infiltration Cellular	Mixed Cell, Moderate
		[Basophilic Focus TGLS = 3-6]	
		[Hepatocellular Adenoma TGLS = 3-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Ovary		Cyst	
		[Cyst TGLS = 2-7]	
* Pancreas		Atrophy	Minimal
		Cyst	
* Pituitary Gland	Pars Distalis	Cyst	
* Salivary Glands		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Infiltration Cellular	Mixed Cell, Marked
		[Infiltration Cellular TGLS = 1-6]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 388

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108546

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 389

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
		Eosinophilic Focus	
	Hepatocyte	Hypertrophy	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 390

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108548

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Cyst	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Basophilic Focus	
		Hypertrophy	Minimal
		Infiltration Cellular	Mixed Cell, Moderate
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 2-21]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
[Hyperplasia TGLS = 3-1]			
* Skin		Hyperkeratosis	Moderate
[Hyperkeratosis TGLS = 1-22]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 391

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Schwannoma Malignant	
Note: THE SCHWANNOMA APPEARS TO BE AN EARLY STAGE.			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
	Hepatocyte	Hypertrophy	Mild
		Mixed Cell Focus	
		[Basophilic Focus TGLS = 1-6]	
		[Mixed Cell Focus TGLS = 2-21]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Fibroadenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 392

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108550

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Hypertrophy	Mild
[Hypertrophy TGLS = 3-6]			
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus		Polyp Stromal	

Note: THE STROMAL POLYP IS NECROTIC.

[Polyp Stromal TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 393

TRT#: 8

SEX: Female

DAY ON TEST: 666

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--|---------------|----------------------------------|---------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Hepatocellular Adenoma | |
| | | Hepatodiaphragmatic Nodule | |
| | Hepatocyte | Hypertrophy | Minimal |
| Note: THE HEPATOCELLULAR ADENOMA IS ON SLIDE 22 WITHIN THE HEPATODIAPHRAGMATIC NODULE. | | | |
| [Hepatodiaphragmatic Nodule TGLS = 2-22] | | | |
| * Lung | | Infiltration Cellular | Histiocyte, Minimal |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Cyst | |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 1-21] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 394

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108552

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Minimal
	Hepatocyte	Eosinophilic Focus	
		Hypertrophy	Mild
		[Eosinophilic Focus TGLS = 1-6]	
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus		Cyst	
		Hyperplasia	Cystic, Minimal
		[Cyst TGLS = 2-7]	
		[Hyperplasia TGLS = 3-7]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 395

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Compression	Moderate
[Compression TGLS = 5-1]			
* Kidney		Nephropathy	Moderate
* Liver	Hepatocyte	Degeneration	Mild
		Hemorrhage	Minimal
		Hepatodiaphragmatic Nodule	
	Hepatocyte	Hypertrophy	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
		Mixed Cell Focus	
[Hemorrhage TGLS = 2-6]			
[Hepatodiaphragmatic Nodule TGLS = 4-21]			
[Hypertrophy TGLS = 2-6]			
[Mixed Cell Focus TGLS = 2-6,7-22]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 8-23]			
[Hyperplasia TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 395

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108553

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-1]

* Spleen

Hematopoietic Cell Proliferation

Mild

* Uterus

Polyp Stromal

Note: STROMAL POLYP IS MARKEDLY NECROTIC.

[Polyp Stromal TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 396

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Hepatocyte	Degeneration	Mild
	Hepatocyte	Eosinophilic Focus	
		Hypertrophy	Minimal
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Eosinophilic Focus TGLS = 3-6]			
[Hypertrophy TGLS = 3-6]			
[Leukemia Mononuclear TGLS = 3-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Pancreas		Cyst	
* Spleen		Leukemia Mononuclear	
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 396

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108554

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 397

TRT#: 8

SEX: Female

DAY ON TEST: 687

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
		Hypertrophy	Focal, Minimal
* Brain		Compression	Marked
[Compression TGLS = 6-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Hypertrophy	Moderate
		Infiltration Cellular	Mixed Cell, Marked
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Hemorrhage	Mild
[Hemorrhage TGLS = 3-7]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Marked
[Fibroadenoma TGLS = 2-21]			
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			
* Spleen		Infiltration Cellular	Mixed Cell, Marked
[Infiltration Cellular TGLS = 4-6, 5-22]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 397

TRT#: 8

SEX: Female

DAY ON TEST: 687

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 108555

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 398

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108556

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 4-1]			
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Degeneration	Minimal
	Hepatocyte	Hypertrophy	Minimal
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 2-21]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-8]			
Mesentery		Accessory Spleen	
[Accessory Spleen TGLS = 5-22]			
* Nose		Inflammation	Chronic, Minimal
* Pancreas		Cyst	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 398

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108556

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Goldenseal root powder

CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 399

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Marked
[Compression TGLS = 6-1]			
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet Nephropathy	Mild Minimal
* Liver	Hepatocyte	Basophilic Focus Degeneration Eosinophilic Focus Hepatodiaphragmatic Nodule Infiltration Cellular Mixed Cell Focus	Minimal Mixed Cell, Minimal
[Hepatodiaphragmatic Nodule TGLS = 4-23]			
[Mixed Cell Focus TGLS = 5-6]			
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular Inflammation Metaplasia	Mild Histiocyte, Mild Chronic, Mild Osseous, Minimal
[Hyperplasia TGLS = 8-25]			
[Inflammation TGLS = 8-25]			
* Mammary Gland		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Goldenseal root powder
CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014
Time Report Requested: 07:44:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 399	TRT#: 8	SEX: Female	DAY ON TEST: 732
	DOSE: 25000 PPM	DISP: Terminal Sacrifice	HISTO: 108557

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 2-21] [Hyperplasia TGLS = 1-8] Mesentery	Fat	Hyperplasia	Moderate
[Necrosis TGLS = 3-22] * Pancreas		Necrosis	Moderate
* Pituitary Gland [Carcinoma TGLS = 7-24]	Pars Distalis	Atrophy Cyst Carcinoma	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Urin Bladder Note: INFUSION ARTIFACT IN URINARY BLADDER.			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 99007-05

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

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CAS Number: GOLDENSEALRT

Date Report Requested: 10/21/2014

Time Report Requested: 07:44:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 400

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 108558

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration Hypertrophy	Fatty, Minimal Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Eosinophilic Focus	
* Lung	Alveolar Epith	Hyperplasia Infiltration Cellular Inflammation	Minimal Histiocyte, Minimal Chronic, Minimal
* Mammary Gland		Fibroadenoma Hyperplasia	Marked
Note: MAMMARY GLAND HYPERPLASIA IS MOST SEVERE ON SLIDE 21 ADJACENT TO FIBROADENOMA. [Fibroadenoma TGLS = 1-21] [Hyperplasia TGLS = 5-8]			
* Ovary		Cyst	
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-22]			

PRIMARY CAUSE OF DEATH

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**** END OF REPORT ****