

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**C Number:** C62408  
**Lock Date:** 07/30/1997  
**Cage Range:** All  
**Date Range:** All  
**Reasons For Removal:** All  
**Removal Date Range:** All  
**Treatment Groups:** All  
**Study Gender:** Both  
**PWG Approval Date:** 12/02/1998

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 1	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 369
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 95-73614

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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	
	Inflammation	Focal, Minimal

[ Hepatocellular Carcinoma TGLS = 2-21 ]

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<b>PRIMARY CAUSE OF DEATH</b>	-
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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-76661

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
	[ Vacuolization Cytoplasmic TGLS = 4-21 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 2-2 ]		
* Preputial Gland		Degeneration	Cystic, Marked
	[ Degeneration TGLS = 1-8 ]		
* Seminal Vesicle		Dilatation	Moderate
	[ Dilatation TGLS = 3-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 3	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76662

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Bone Marrow	Mast Cell Tumor Malignant	
* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 3-2 ]		
* Seminal Vesicle	Dilatation	Moderate
[ Dilatation TGLS = 1-7 ]		
* Thymus	Cyst	Mild
Tooth	Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: Mast cell tumor, malignant, is in bone marrow, kidney, liver, lung, mandib. lymph node, spleen, forestomach. (This tumor in TDMS menu only for bone marrow.)

Animal Note: All tissues affected with mast cell tumor, except bone marrow, are marked normal, due to limitations of options in TDMS.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 4	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 556
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Natural Death	<b>HISTO:</b> 96-74512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Mammary Gland

AUTO PRECLUDES DIAG.

- \* Intestine Large, Cecum

OBSERVATIONS

- |                                       |                                  |          |
|---------------------------------------|----------------------------------|----------|
| * Kidney                              | Nephropathy                      | Minimal  |
| * Liver                               | Hemangiosarcoma                  | Multiple |
| [ Hemangiosarcoma TGLS = 2-21, 3-22 ] |                                  |          |
| * Spleen                              | Hematopoietic Cell Proliferation | Moderate |

PRIMARY CAUSE OF DEATH - Liver Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-76663

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
	[ Hepatocellular Adenoma TGLS = 4-21 ]		
	[ Vacuolization Cytoplasmic TGLS = 3-6 ]		
* Nose	Nasolacrim Dct	Cyst	Mild
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Seminal Vesicle		Dilatation	Moderate
	[ Dilatation TGLS = 2-7 ]		

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

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<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76664

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Preputial Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

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**MISSING**

* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
	[ Hepatocellular Adenoma TGLS = 3-21 ]		
	[ Vacuolization Cytoplasmic TGLS = 2-6 ]		
* Seminal Vesicle		Dilatation	Moderate
	[ Dilatation TGLS = 1-7 ]		
* Thyroid Gland	Follicle	Cyst	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-76665

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Intestine Small, Duodenum	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
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OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
[ Eosinophilic Focus TGLS = 2-6 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Pancreas		Lipomatosis	Focal, Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Thyroid Gland	Follicular Cel	Carcinoma	
[ Carcinoma TGLS = 3-3 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 8	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76666

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Moderate
* Gallbladder		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 3-22 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-5 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-21 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Skin	Pinna	Fibrosarcoma	
[ Fibrosarcoma TGLS = 5-23 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77237

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Nephropathy	Mild
* Liver	Hemangiosarcoma	
	Hepatocellular Adenoma	
	Inflammation	Focal, Minimal
[ Hemangiosarcoma TGLS = 2-21 ]		
[ Hepatocellular Adenoma TGLS = 3-22 ]		
* Lymph Node, Mesenteric	Hemorrhage	Mild
[ Hemorrhage TGLS = 4-5 ]		
* Preputial Gland	Degeneration	Cystic, Moderate
	Inflammation	Chronic, Moderate
[ Degeneration TGLS = 1-8 ]		
[ Inflammation TGLS = 1-8 ]		
Tooth	Developmental Malformation	Marked

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 10

**TRT#:** 1  
**DOSE:** 0 PPM

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 369  
**HISTO:** 95-73615

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Liver

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**OBSERVATIONS**

\* Kidney Nephropathy Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-76667

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
	[ Clear Cell Focus TGLS = 2-21 ]		
	[ Vacuolization Cytoplasmic TGLS = 1-6 ]		
* Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Mild
* Seminal Vesicle		Dilatation	Moderate
	[ Dilatation TGLS = 3-7 ]		

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-76668

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Mammary Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

\* Pituitary Gland

OBSERVATIONS

Harderian Gland [ Adenoma TGLS = 5-9, 5-22 ]		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte [ Hepatocellular Carcinoma TGLS = 3-21 ]	Hepatocellular Carcinoma Vacuolization Cytoplasmic	Multiple Focal, Minimal
* Lung [ Hyperplasia TGLS = 4-2 ]	Alveolar Epith	Hyperplasia	Mild
* Preputial Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Moderate
* Seminal Vesicle [ Dilatation TGLS = 2-7 ]		Dilatation	Moderate
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:40  
First Dose M/F: NA / NA  
Lab: SRI

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<b>ANIMAL ID:</b> 13	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76669

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

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**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Thyroid Gland	Follicular Cel	Adenoma	

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-76670

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Intestine Small, Ileum [ Lymphoma Malignant TGLS = 4-22 ]		Lymphoma Malignant	
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
	Hepatocyte	Hepatocellular Carcinoma	
		Vacuolization Cytoplasmic	Focal, Mild
Note: Slide 21 has both an hepatoclr adenoma and hepatoclr carcinoma. [ Hepatocellular Adenoma TGLS = 3-21 ] [ Hepatocellular Carcinoma TGLS = 3-21 ] [ Vacuolization Cytoplasmic TGLS = 2-6 ]			
* Lung [ Alveolar/Bronchiolar Adenoma TGLS = 5-2 ]		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Seminal Vesicle [ Dilatation TGLS = 1-7 ]		Dilatation	Moderate
* Spleen		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Hepatocellular Carcinoma	
		Vacuolization Cytoplasmic	Focal, Minimal
	[ Hepatocellular Carcinoma TGLS = 3-21 ]		
	[ Vacuolization Cytoplasmic TGLS = 2-6 ]		
* Lymph Node, Mesenteric		Hemorrhage	Mild
Mesentery	Fat	Necrosis	Minimal
	[ Necrosis TGLS = 4-22 ]		
* Seminal Vesicle		Dilatation	Moderate
	[ Dilatation TGLS = 1-7 ]		
Tooth		Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 16	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76671

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Prostate
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	Multiple
[ Hepatocellular Carcinoma TGLS = 8-22, 9-23 ]			
* Lung		Alveolar/Bronchiolar Adenoma Hyperplasia	Histiocytic, Mild
[ Alveolar/Bronchiolar Adenoma TGLS = 6-2-1 ]			
Lymph Node	Renal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 7-21 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-5 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Seminal Vesicle		Dilatation	Moderate
[ Dilatation TGLS = 3-7 ]			
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-6 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
[ Hyperplasia TGLS = 5-3 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-76672

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Lung	Bronchus, Glands	Cyst	Mild
Lymph Node		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-21 ]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
[ Hemorrhage TGLS = 5-5 ]			
* Preputial Gland		Inflammation	Chronic, Marked
[ Inflammation TGLS = 1-7-1 ]			
* Salivary Glands		Vacuolization Cytoplasmic	Moderate
* Seminal Vesicle		Dilatation	Marked
[ Dilatation TGLS = 2-7, 3-7-1 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tongue		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 6-22 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-76673

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLS = 2-21, 3-22 ]		
* Nose	Glands, Mucosa	Dilatation	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77239

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyimus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

Harderian Gland	Adenoma	
* Kidney	Nephropathy	Mild
* Liver	Hepatocellular Carcinoma	Multiple
[ Hepatocellular Carcinoma TGLS = 2-21, 3-21 ]		
* Lung	Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 4-2 ]		
* Skin	Mast Cell Tumor Malignant	
[ Mast Cell Tumor Malignant TGLS = 5-22 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 1-6 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:40  
First Dose M/F: NA / NA  
Lab: SRI

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<b>ANIMAL ID:</b> 20	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76674

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

* Mammary Gland	* Pituitary Gland	* Preputial Gland
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 3-2-1 ]		
* Seminal Vesicle		Dilatation	Marked
	[ Dilatation TGLS = 1-7-1, 2-7-1 ]		
Tooth		Developmental Malformation	Marked

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 21

**TRT#:** 1  
**DOSE:** 0 PPM

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 369  
**HISTO:** 95-73616

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**OBSERVATIONS**

\* Kidney  
\* Liver

Nephropathy  
Inflammation

Minimal  
Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 22

**TRT#:** 1  
**DOSE:** 0 PPM

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 369  
**HISTO:** 95-73617

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**OBSERVATIONS**

\* Kidney  
\* Liver

Nephropathy  
Inflammation

Minimal  
Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 23

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 636

**DOSE:** 0 PPM

**DISP:** Natural Death

**HISTO:** 96-74886

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 2-21, 3-22 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Lymph Node	Inguinal	Infiltration Cellular	Mast Cell, Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular		Erosion	Mild
[ Erosion TGLS = 4-23 ]			

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-76675

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia Hypertrophy	Focal, Minimal Focal, Moderate
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-6 ]			
* Seminal Vesicle		Dilatation	Moderate
[ Dilatation TGLS = 1-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-76676

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Mammary Gland	* Preputial Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Mild
* Lung [ Alveolar/Bronchiolar Carcinoma TGLS = 2-2-1 ]	Alveolar/Bronchiolar Carcinoma	
* Seminal Vesicle [ Dilatation TGLS = 1-7 ]	Dilatation	Marked
Tooth	Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 639

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 96-74940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Intestine Small, Jejunum [ Leiomyosarcoma TGLS = 5-23 ]		Leiomyosarcoma	
* Kidney		Nephropathy	Minimal
* Liver [ Hepatocellular Carcinoma TGLS = 3-21, 4-22 ]		Hepatocellular Carcinoma	Multiple
* Lung [ Leiomyosarcoma TGLS = 8-24 ] [ Leiomyosarcoma TGLS = 6-2, 7-2 ]	Mediastinum	Leiomyosarcoma Leiomyosarcoma	Metastatic (Intestine Small, Jejunum) Metastatic (Intestine Small, Jejunum)
Lymph Node	Pancreatic	Hepatocellular Carcinoma	Metastatic (Liver)
* Preputial Gland		Degeneration	Cystic, Moderate
* Spleen [ Hematopoietic Cell Proliferation TGLS = 2-6 ]		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 96-76677

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Minimal
* Kidney [ Nephropathy TGLS = 2-5 ]	Nephropathy	Marked
* Liver [ Hepatocellular Carcinoma TGLS = 3-21, 4-22 ]	Hepatocellular Carcinoma	Multiple
* Preputial Gland [ Degeneration TGLS = 1-8 ]	Degeneration	Cystic, Moderate
* Thyroid Gland	Follicular Cel Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:40  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-76678

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

Harderian Gland [ Adenoma TGLS = 4-22 ]	Adenoma	
* Kidney	Nephropathy	Mild
* Liver [ Hepatocellular Carcinoma TGLS = 2-21 ]	Hepatocellular Carcinoma	
* Lung [ Alveolar/Bronchiolar Carcinoma TGLS = 3-2-1 ]	Alveolar/Bronchiolar Carcinoma	
* Seminal Vesicle	Dilatation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 29	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76679

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

* Brain	* Mammary Gland
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**OBSERVATIONS**

* Gallbladder	Cyst	Mild
* Kidney	Nephropathy	Minimal
* Lymph Node, Mesenteric	Hemorrhage	Mild

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77240

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing from wet tissues.			
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	
		Hepatocellular Carcinoma	
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
	[ Hepatocellular Carcinoma TGLS = 3-6 ]		
	[ Vacuolization Cytoplasmic TGLS = 4-6 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
	[ Alveolar/Bronchiolar Carcinoma TGLS = 5-2 ]		
* Preputial Gland		Inflammation	Chronic, Marked
	[ Inflammation TGLS = 1-8 ]		
* Seminal Vesicle		Dilatation	Marked
	[ Dilatation TGLS = 2-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 31

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 0 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73618

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

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**OBSERVATIONS**

\* Kidney

Nephropathy

Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**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:** 96-76680

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Fatty Change	Diffuse, Moderate
	Hepatocyte	Hepatocellular Adenoma	Multiple
		Vacuolization Cytoplasmic	Focal, Mild
	[ Hepatocellular Adenoma TGLS = 3-6, 3-22 ]		
	[ Vacuolization Cytoplasmic TGLS = 2-21 ]		
* Seminal Vesicle		Dilatation	Marked
	[ Dilatation TGLS = 1-7 ]		
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 33	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 369
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 95-73619

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

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**OBSERVATIONS**

* Kidney	Cyst	Mild
	Nephropathy	Minimal

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 34	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76681

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Adenoma	

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 1

DOSE: 0 PPM

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 96-76682

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Preputial Gland	* Thymus
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OBSERVATIONS

* Intestine Small, Ileum		Lymphoma Malignant	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatoblastoma	
[ Basophilic Focus TGLS = 8-24 ]			
[ Hepatoblastoma TGLS = 5-22 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 6-2 ]			
Lymph Node	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-21 ]			
[ Lymphoma Malignant TGLS = 7-23 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-5 ]			
* Seminal Vesicle		Dilatation	Marked
[ Dilatation TGLS = 1-7 ]			
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-6 ]			
Tooth		Developmental Malformation	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 35

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76682

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-76683

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Intestine Small, Ileum [ Inflammation TGLS = 4-22 ]		Inflammation	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver [ Vacuolization Cytoplasmic TGLS = 3-21 ]	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
* Lymph Node, Mesenteric		Hyperplasia	Moderate
* Preputial Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Moderate
* Spleen [ Hematopoietic Cell Proliferation TGLS = 2-6 ]		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 37	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76684

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Kidney	Pelvis	Dilatation Nephropathy	Moderate Minimal
[ Dilatation TGLS = 4-5 ]			
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 5-21 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 6-2 ]			
* Preputial Gland		Inflammation	Chronic, Moderate
[ Inflammation TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 38

**TRT#:** 1  
**DOSE:** 0 PPM

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 369  
**HISTO:** 95-73620

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Liver

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**OBSERVATIONS**

\* Kidney Nephropathy Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 39	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76685

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

* Mammary Gland	* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Adrenal Cortex	Cyst	Moderate
	Hyperplasia	Focal, Mild
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	

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[ Hepatocellular Carcinoma TGLS = 1-21 ]

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Pelvis	Dilatation Nephropathy	Mild Moderate
* Liver		Hepatocellular Carcinoma	Multiple
[ Hepatocellular Carcinoma TGLS = 2-21, 3-22, 4-23 ]			
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation Hemorrhage	Mild Mild
[ Hematopoietic Cell Proliferation TGLS = 5-5 ]			
[ Hemorrhage TGLS = 5-5 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 1-6 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 680

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 96-75545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Bone Marrow	Hyperplasia	Moderate
* Kidney	Nephropathy	Mild
* Lung	Alveolar/Bronchiolar Carcinoma	Chronic, Marked
	Inflammation	
[ Alveolar/Bronchiolar Carcinoma TGLS = 7-2 ]		
[ Inflammation TGLS = 7-2 ]		
* Preputial Gland	Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]		
* Seminal Vesicle	Dilatation	Mild
[ Dilatation TGLS = 2-7 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Degeneration	Cystic, Focal, Mild
Tooth	Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Lung Inflammation

Animal Note: Due to massive inflammation in lungs and mediastinum, thymus and mediastinal lymph node could not be identified microscopically.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 42	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76686

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Seminal Vesicle		Dilatation	Mild
[ Dilatation TGLS = 1-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 43

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 0 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73621

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Liver

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**OBSERVATIONS**

\* Kidney

Nephropathy

Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77242

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 2-6 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Stomach, Glandular	Glands	Degeneration	Cystic, Focal, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 45	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-77243

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Mild
[ Nephropathy TGLS = 2-5 ]			
* Seminal Vesicle		Dilatation	Moderate
[ Dilatation TGLS = 1-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tooth		Developmental Malformation	Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 699

DOSE: 0 PPM

DISP: Natural Death

HISTO: 96-75676

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Mammary Gland	* Pituitary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Pancreas	* Urinary Bladder

OBSERVATIONS

Blood Vessel Note: Aorta not identifiable among tissues.			
* Liver		Eosinophilic Focus Hepatocellular Carcinoma	
[ Eosinophilic Focus TGLS = 7-22 ]			
[ Hepatocellular Carcinoma TGLS = 4-21 ]			
* Lung		Alveolar/Bronchiolar Adenoma Alveolar/Bronchiolar Carcinoma Hepatocellular Carcinoma	Metastatic (Liver)
[ Hepatocellular Carcinoma TGLS = 5-2 ]			
* Seminal Vesicle		Dilatation	Mild
[ Dilatation TGLS = 2-8 ]			

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 052111-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-76687

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Epididymis             | * Esophagus                | * Gallbladder             |
| * 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 | * Lymph Node, Mesenteric   | * Nose                    |
| * Pancreas                  | * Parathyroid Gland      | * Preputial Gland          | * Prostate                |
| * Salivary Glands           | * Seminal Vesicle        | * Skin                     | * Spleen                  |
| * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   | * Thymus                  |
| * Trachea                   | * Urinary Bladder        |                            |                           |

MISSING

- |                 |                   |
|-----------------|-------------------|
| * Mammary Gland | * Pituitary Gland |
|-----------------|-------------------|

OBSERVATIONS

- |   |                |                           |             |
|---|----------------|---------------------------|-------------|
| * Kidney                                  |                | Nephropathy               | Minimal     |
| * Liver                                   |                | Clear Cell Focus          |             |
|   |                | Eosinophilic Focus        |             |
|   | Hepatocyte     | Vacuolization Cytoplasmic | Focal, Mild |
| [ Vacuolization Cytoplasmic TGLS = 1-21 ] |                |                           |             |
| * Thyroid Gland                           | Follicular Cel | Hyperplasia               | Moderate    |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

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: 96-76688

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Kidney	Nephropathy	Mild
* Liver	Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-21 ]		
* Seminal Vesicle	Dilatation	Moderate
[ Dilatation TGLS = 2-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin

**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 03:18:40

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

**Lab:** SRI

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**ANIMAL ID:** 49

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 0 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73622

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**OBSERVATIONS**

\* Kidney

Mineralization

Focal, Minimal

Nephropathy

Mild

\* Liver

Inflammation

Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin

**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 03:18:40

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

**Lab:** SRI

---

**ANIMAL ID:** 50

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 0 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73623

---

**OBSERVATIONS**

\* Kidney

Nephropathy

Minimal

\* Liver

Inflammation

Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 51

TRT#: 1

SEX: Male

DAY ON TEST: 636

DOSE: 0 PPM

DISP: Natural Death

HISTO: 96-74941

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Nose	* Pancreas	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

\* Intestine Small, Jejunum

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
		Pheochromocytoma Benign	
* Kidney	Pelvis	Dilatation	Mild
		Nephropathy	Marked
	[ Dilatation TGLS = 3-5 ]		
	[ Nephropathy TGLS = 2-5 ]		
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 5-21 ]		
Lymph Node	Iliac	Hyperplasia	Mild
	Renal	Hyperplasia	Mild
	[ Hyperplasia TGLS = 7-22 ]		
	[ Hyperplasia TGLS = 8-23 ]		
* Lymph Node, Mesenteric		Hemorrhage	Marked
	[ Hemorrhage TGLS = 6-5 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 51	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 636
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Natural Death	<b>HISTO:</b> 96-74941

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Parathyroid Gland		Cyst	Mild
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Marked
[ Hyperplasia TGLS = 9-3 ]			

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PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 52

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-76689

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Hemangiosarcoma Hepatocellular Carcinoma	
[ Hemangiosarcoma TGLS = 4-22 ]		
[ Hepatocellular Carcinoma TGLS = 3-21 ]		
* Lymph Node, Mesenteric	Hemorrhage	Moderate
[ Hemorrhage TGLS = 5-5 ]		
* Preputial Gland	Inflammation	Chronic, Marked
[ Inflammation TGLS = 1-8 ]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:40  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 53

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-76690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 4-2-1 ]		
* Skin	Sebaceous GI	Adenoma	
	[ Adenoma TGLS = 2-21 ]		
* Urinary Bladder		Hemangioma	
	[ Hemangioma TGLS = 3-8-1 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:40  
First Dose M/F: NA / NA  
Lab: SRI

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ANIMAL ID: 54	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 96-76691

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Seminal Vesicle		Dilatation	Moderate
[ Dilatation TGLS = 1-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicle	Cyst	Marked
[ Cyst TGLS = 2-3 ]			
Tooth		Developmental Malformation	Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 55	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76692

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
	[ Hepatocellular Adenoma TGLS = 2-6 ]		
	[ Vacuolization Cytoplasmic TGLS = 2-6 ]		
* Seminal Vesicle		Dilatation	Moderate
	[ Dilatation TGLS = 1-7 ]		
* Thymus		Cyst	Mild
Tooth		Developmental Malformation	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 56

TRT#: 1

SEX: Male

DAY ON TEST: 639

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 96-74942

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

Harderian Gland [ Adenoma TGLS = 5-21 ]		Adenoma	
* Kidney		Nephropathy	Mild
* Liver [ Basophilic Focus TGLS = 3-6 ]		Basophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Preputial Gland [ Inflammation TGLS = 1-8 ]		Inflammation	Chronic, Marked
* Seminal Vesicle [ Dilatation TGLS = 2-7 ]		Dilatation	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

- Harderian Gland Adenoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 57

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-76693

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 3-6, 6-6 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 5-2 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
		Inflammation	Chronic, Marked
[ Degeneration TGLS = 2-8 ]			
[ Inflammation TGLS = 1-8 ]			
* Seminal Vesicle		Dilatation	Mild
[ Dilatation TGLS = 4-7 ]			
* Testes	Germinal Epith	Degeneration	Moderate
Note: Degeneration involves only one testis.			
Tooth		Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 58

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-76694

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Mild
* Liver		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 1-21 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tooth		Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 59	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76695

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Adenoma	
* Kidney	Renal Tubule	Hyperplasia	Focal, Minimal
		Nephropathy	Mild
* Liver		Eosinophilic Focus	
[ Eosinophilic Focus TGLS = 2-21 ]			
* Seminal Vesicle		Dilatation	Moderate
[ Dilatation TGLS = 1-7 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 052111-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 60

TRT#: 1

SEX: Male

DAY ON TEST: 656

DOSE: 0 PPM

DISP: Natural Death

HISTO: 96-75027

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Pituitary Gland
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Preputial Gland		Degeneration	Cystic, Moderate
		Inflammation	Chronic, Moderate
[ Degeneration TGLS = 2-8-1 ]			
[ Inflammation TGLS = 2-8-1 ]			
* Seminal Vesicle		Dilatation	Moderate
[ Dilatation TGLS = 3-7 ]			
* Skin	Subcut Tiss	Schwannoma Malignant	
Note: Schwannoma is located on the tail.			
[ Schwannoma Malignant TGLS = 1-21 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Schwannoma Malignant

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 61	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 369
	<b>DOSE:</b> 160 PPM	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 95-73624

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**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Inflammation	Focal, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
Skeletal Muscle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Nephropathy Pigmentation	Mild Minimal
* Liver	[ Hepatocellular Carcinoma TGLS = 4-21, 5-22 ]	Hepatocellular Carcinoma	Multiple
* Lung	[ Alveolar/Bronchiolar Carcinoma TGLS = 6-2 ]	Alveolar/Bronchiolar Adenoma Alveolar/Bronchiolar Carcinoma Hemorrhage	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Preputial Gland	[ Degeneration TGLS = 2-8 ]	Degeneration	Cystic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 63	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 160 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76697

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Adenoma	
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Stomach, Glandular	Glands	Degeneration	Cystic, Focal, Minimal
Tooth	Peridont Tiss	Inflammation	Chronic, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76698

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Bone                     | * Bone Marrow             | * Brain                     |
| * Epididymis             | * Esophagus                | * Gallbladder             | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Liver                     |
| * Lung                   | * Lymph Node, Mandibular   | * Nose                    | * Pancreas                  |
| * Parathyroid Gland      | * Prostate                 | * Salivary Glands         | * Skin                      |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Testes                  | * Thymus                    |
| * Trachea                | * Urinary Bladder          |                           |                             |

MISSING

- \* Mammary Gland

INSUFFICIENT TISSUE

- \* Pituitary Gland

OBSERVATIONS

- |                            |              |                            |                     |
|----------------------------|--------------|----------------------------|---------------------|
| * Adrenal Medulla          |              | Pheochromocytoma Benign    |                     |
| * Kidney                   |              | Nephropathy                | Mild                |
|                            | Renal Tubule | Pigmentation               | Minimal             |
|                            |              | Hyperplasia                | Lymphoid, Moderate  |
| * Lymph Node, Mesenteric   |              |                            |                     |
| [ Hyperplasia TGLS = 1-5 ] |              |                            |                     |
| * Preputial Gland          |              | Degeneration               | Cystic, Moderate    |
| * Seminal Vesicle          |              | Dilatation                 | Mild                |
| * Spleen                   |              | Hyperplasia                | Lymphoid, Mild      |
| * Thyroid Gland            |              | Degeneration               | Cystic, Focal, Mild |
| Tooth                      |              | Developmental Malformation | Mild                |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76699

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Adrenal Cortex	Capsule	Adenoma	
* Bone			
Note: No bone could be found in wet tissue or in block/slide 9 that corresponded to TGL #1			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2 ]			
* Preputial Gland		Degeneration	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 639

DOSE: 160 PPM

DISP: Moribund Sacrifice

HISTO: 96-74943

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel		Inflammation	Chronic, Mild
Note: Affected blood vessel (an artery) is near thyroid gland and esophagus, on slide 3.			
* Kidney	Pelvis	Dilatation	Mild
	Renal Tubule	Nephropathy	Moderate
		Pigmentation	Minimal
	[ Dilatation TGLS = 4-5 ]		
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 5-21 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		
* Stomach, Glandular	Glands	Degeneration	Cystic, Focal, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 052111-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 645

DOSE: 160 PPM

DISP: Moribund Sacrifice

HISTO: 96-75011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Heart		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Kidney		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Minimal
* Liver		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLS = 4-22 ]		
* Lung	Mediastinum	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Alveolar/Bronchiolar Carcinoma	Multiple
	[ Alveolar/Bronchiolar Carcinoma TGLS = 6-2, 6-24 ]		
Mesentery		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Pancreas		Atrophy	Focal, Minimal
* Parathyroid Gland		Cyst	Mild
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-25 ]		
Skeletal Muscle		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	[ Alveolar/Bronchiolar Carcinoma TGLS = 2-21 ]		
* Thymus		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	[ Alveolar/Bronchiolar Carcinoma TGLS = 5-23 ]		

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76700

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLS = 1-21, 2-22 ]		
* Seminal Vesicle		Dilatation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:40  
First Dose M/F: NA / NA  
Lab: SRI

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<b>ANIMAL ID:</b> 69	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 160 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76701

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Thyroid Gland	Follicular Cel	Adenoma	

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 70	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 369
	<b>DOSE:</b> 160 PPM	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 95-73625

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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<b>NORMAL</b>			
* Liver			
<b>OBSERVATIONS</b>			
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
<b>PRIMARY CAUSE OF DEATH</b>	-		

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 677

DOSE: 160 PPM

DISP: Natural Death

HISTO: 96-75230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Bone                     | * Bone Marrow             | * Brain                     |
| * Epididymis             | * Esophagus                | * Gallbladder             | * 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 | * Lymph Node, Mesenteric   | * Nose                    | * Pancreas                  |
| * Parathyroid Gland      | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Spleen                   | * Stomach, Forestomach    | * Stomach, Glandular        |
| * Testes                 | * Thymus                   | * Thyroid Gland           | * Trachea                   |
| * Urinary Bladder        |                            |                           |                             |

MISSING

- |                   |                 |                   |
|-------------------|-----------------|-------------------|
| * Adrenal Medulla | * Mammary Gland | * Pituitary Gland |
|-------------------|-----------------|-------------------|

OBSERVATIONS

- |  |              |                          |                 |
|--|--------------|--------------------------|-----------------|
| * Adren Medulla                                      |              |                          |                 |
| Note: Adrenal sections did not include the medullas. |              |                          |                 |
| * Kidney   |              | Nephropathy              | Moderate        |
|  | Renal Tubule | Pigmentation             | Minimal         |
| * Liver  |              | Hepatocellular Carcinoma |                 |
|  |              | Necrosis                 | Focal, Moderate |
| [ Hepatocellular Carcinoma TGLS = 1-21 ]             |              |                          |                 |
| * Preputial Gland                                    |              | Degeneration             | Cystic, Mild    |

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
 Test Type: CHRONIC  
 Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Test Compound: Emodin  
 CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
 Time Report Requested: 03:18:40  
 First Dose M/F: NA / NA  
 Lab: SRI

**ANIMAL ID:** 72

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 160 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76702

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Esophagus	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Stomach, Forestomach	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Pituitary Gland
-----------------	-------------------

**OBSERVATIONS**

* Adrenal Cortex		Adenoma	
		Lymphoma Malignant	
* Bone Marrow		Lymphoma Malignant	
* Brain		Hemorrhage	Focal, Moderate
		Lymphoma Malignant	
		[ Hemorrhage TGLS = 10-25 ]	
		[ Lymphoma Malignant TGLS = 10-25 ]	
* Epididymis		Lymphoma Malignant	
* Heart		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Lymphoma Malignant	
		[ Lymphoma Malignant TGLS = 4-6, 11-26 ]	
* Lung		Lymphoma Malignant	
Lymph Node	Iliac	Lymphoma Malignant	
	Inguinal	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
		Lymphoma Malignant	

Note: TGL #8-23 is axillary lymph node; "axillary" not available as site for lymph node among available TDMS terms.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 72

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 160 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76702

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Lymphoma Malignant TGLS = 6-22 ]			
[ Lymphoma Malignant TGLS = 5-21 ]			
[ Lymphoma Malignant TGLS = 9-24 ]			
[ Lymphoma Malignant TGLS = 8-23 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 7-5 ]			
Mesentery		Lymphoma Malignant	
* Nose		Lymphoma Malignant	
* Seminal Vesicle		Dilatation	Moderate
[ Dilatation TGLS = 2-7 ]			
* Skin	Subcut Tiss	Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-6 ]			
* Stomach, Glandular		Lymphoma Malignant	
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
Tooth		Developmental Malformation	Moderate
Urethra		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 461

DOSE: 160 PPM

DISP: Natural Death

HISTO: 95-73914

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Brain  
\* Intestine Large, Colon  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Seminal Vesicle  
\* Stomach, Glandular  
\* Trachea

\* Adrenal Medulla  
\* Epididymis  
\* Intestine Large, Rectum  
\* Lymph Node, Mesenteric  
\* Preputial Gland  
\* Skin  
\* Testes  
\* Urinary Bladder

\* Bone  
\* Esophagus  
\* Islets, Pancreatic  
\* Nose  
\* Prostate  
\* Spleen  
\* Thymus

\* Bone Marrow  
\* Heart  
\* Lung  
\* Pancreas  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Thyroid Gland

MISSING

\* Mammary Gland

\* Pituitary Gland

AUTO PRECLUDES DIAG.

\* Gallbladder  
\* Intestine Small, Jejunum

\* Intestine Large, Cecum

\* Intestine Small, Duodenum

\* Intestine Small, Ileum

OBSERVATIONS

\* Kidney

Renal Tubule

Nephropathy

Mild

\* Liver

Centrilobular

Pigmentation

Hepatocellular Carcinoma

Vacuolization Cytoplasmic

Minimal

Mild

[ Hepatocellular Carcinoma TGLS = 1-21 ]

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76703

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Minimal
Harderian Gland		Adenoma	
[ Adenoma TGLS = 5-23 ]			
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
[ Vacuolization Cytoplasmic TGLS = 4-22 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-21 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Seminal Vesicle		Dilatation	Moderate
[ Dilatation TGLS = 3-7 ]			
Tooth		Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-77244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Nephropathy Pigmentation	Mild Minimal
* Liver	Hepatocyte	Hepatocellular Carcinoma Vacuolization Cytoplasmic	Focal, Mild
	[ Hepatocellular Carcinoma TGLS = 2-21 ]		
	[ Vacuolization Cytoplasmic TGLS = 3-22 ]		
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Seminal Vesicle		Dilatation	Mild
	[ Dilatation TGLS = 1-7 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76704

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Adenoma Cytoplasmic Alteration	Focal, Minimal
* Kidney	Renal Tubule	Adenoma Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
[ Adenoma TGLS = 3-22 ]			
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 5-23 ]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
[ Hemorrhage TGLS = 4-5 ]			
* Parathyroid Gland		Cyst	Mild
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-21 ]			
* Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 77	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 160 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76705

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

\* Mammary Gland

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**INSUFFICIENT TISSUE**

\* Thymus

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**OBSERVATIONS**

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Moderate
* Preputial Gland		Inflammation	Chronic, Moderate
* Seminal Vesicle		Dilatation	Moderate
[ Dilatation TGLS = 1-7 ]			
Tooth		Developmental Malformation	Moderate

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 78

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 160 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73626

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**OBSERVATIONS**

\* Kidney

Nephropathy

Minimal

\* Liver

Inflammation

Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 79

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 160 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73627

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Liver

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**OBSERVATIONS**

\* Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76706

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mesenteric	* Mammary Gland
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OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
	[ Vacuolization Cytoplasmic TGLS = 4-21 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Seminal Vesicle		Dilatation	Moderate
	[ Dilatation TGLS = 2-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-77245

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
	[ Hepatocellular Adenoma TGLS = 2-6 ]		
	[ Vacuolization Cytoplasmic TGLS = 2-6 ]		
* Seminal Vesicle		Dilatation	Moderate
	[ Dilatation TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 82	<b>TRT#:</b> 3 <b>DOSE:</b> 160 PPM	<b>SEX:</b> Male <b>DISP:</b> Scheduled Sacrifice	<b>DAY ON TEST:</b> 369 <b>HISTO:</b> 95-73628
<b>OBSERVATIONS</b>			
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Inflammation	Focal, Minimal
<b>PRIMARY CAUSE OF DEATH</b>	-		

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 446

DOSE: 160 PPM

DISP: Natural Death

HISTO: 95-73911

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mesenteric
- \* Pituitary Gland
- \* Skin
- \* Thymus

- \* Adrenal Medulla
- \* Epididymis
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Nose
- \* Preputial Gland
- \* Stomach, Forestomach
- \* Thyroid Gland

- \* Bone
- \* Esophagus
- \* Intestine Large, Rectum
- \* Lung
- \* Pancreas
- \* Prostate
- \* Stomach, Glandular
- \* Trachea

- \* Bone Marrow
- \* Heart
- \* Intestine Small, Duodenum
- \* Lymph Node, Mandibular
- \* Parathyroid Gland
- \* Salivary Glands
- \* Testes
- \* Urinary Bladder

MISSING

- \* Mammary Gland

AUTO PRECLUDES DIAG.

- \* Gallbladder
- \* Intestine Small, Jejunum

OBSERVATIONS

- \* Kidney
  - Renal Tubule
    - Nephropathy
    - Pigmentation
    - Hepatocellular Carcinoma
    - Necrosis
  - [ Hepatocellular Carcinoma TGLS = 1-21 ]
- \* Liver
  - Dilatation
  - Hematopoietic Cell Proliferation
- \* Seminal Vesicle
- \* Spleen

- Minimal
- Minimal
- Focal, Moderate
- Mild
- Moderate

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	Multiple
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
	[ Hepatocellular Carcinoma TGLS = 2-21, 3-22 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Seminal Vesicle		Dilatation	Moderate
	[ Dilatation TGLS = 1-7 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
Tooth		Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 85	<b>TRT#:</b> 3 <b>DOSE:</b> 160 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 96-76708
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Nose	* Pancreas	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Thymus
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**OBSERVATIONS**

* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 2-21 ]		Lymphoma Malignant	
* Kidney	Renal Tubule	Nephropathy Pigmentation	Mild Minimal
* Liver	Hepatocyte [ Clear Cell Focus TGLS = 3-22, 4-23 ] [ Vacuolization Cytoplasmic TGLS = 5-24 ]	Clear Cell Focus Vacuolization Cytoplasmic	Focal, Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Seminal Vesicle [ Dilatation TGLS = 1-7 ]		Dilatation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Tooth		Developmental Malformation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 86	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 369
	<b>DOSE:</b> 160 PPM	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 95-73629

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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<b>NORMAL</b>			
* Liver			
<b>OBSERVATIONS</b>			
* Kidney	Cyst	Mild	
	Nephropathy	Minimal	

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<b>PRIMARY CAUSE OF DEATH</b>	-
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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76709

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

Ear	External Ear	Histiocytic Sarcoma	
Note: TGL #2 is diagnosed as histiocytic sarcoma because that is, among available TDMS terms, closest match to morphology of observed lesion.			
[ Histiocytic Sarcoma TGLS = 2-21 ]			
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Minimal
* Liver	Hepatocyte	Fatty Change	Diffuse, Moderate
		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 3-22 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Preputial Gland		Degeneration	Cystic, Moderate
* Seminal Vesicle		Dilatation	Moderate
[ Dilatation TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 88	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 160 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76710

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* 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	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

**MISSING**

* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Adrenal Cortex	Capsule	Adenoma	
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-7 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Seminal Vesicle		Dilatation	Moderate
[ Dilatation TGLS = 3-7 ]			
* Thymus		Cyst	Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
Tooth		Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 2-21, 3-22 ]		
* Seminal Vesicle		Dilatation	Mild
	[ Dilatation TGLS = 1-7 ]		
* Stomach, Forestomach		Squamous Cell Papilloma	
	[ Squamous Cell Papilloma TGLS = 4-23 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76712

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	Hepatocyte	Hepatocellular Carcinoma	
		Vacuolization Cytoplasmic	Focal, Mild
	[ Hepatocellular Adenoma TGLS = 2-21, 3-6 ]		
	[ Hepatocellular Carcinoma TGLS = 3-6 ]		
	[ Vacuolization Cytoplasmic TGLS = 2-21, 3-6 ]		
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Seminal Vesicle		Dilatation	Moderate
		[ Dilatation TGLS = 1-7 ]	
* Stomach, Glandular	Glands	Dysplasia	Focal, Mild
* Thymus		Cyst	Mild
Tooth		Developmental Malformation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 636

DOSE: 160 PPM

DISP: Natural Death

HISTO: 96-74887

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

\* Gallbladder

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	[ Hepatocellular Carcinoma TGLS = 1-21 ]	Hepatocellular Carcinoma	
* Lung	[ Alveolar/Bronchiolar Adenoma TGLS = 2-2 ]	Alveolar/Bronchiolar Adenoma	
	[ Hepatocellular Carcinoma TGLS = 2-2 ]	Hemorrhage	Moderate
		Hepatocellular Carcinoma	Metastatic (Liver)
Lymph Node	Mediastinal	Hepatocellular Carcinoma	Metastatic (Liver)
	[ Hepatocellular Carcinoma TGLS = 4-2 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76713

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

OBSERVATIONS

* Intestine Small, Ileum [ Lymphoma Malignant TGLS = 5-24 ]		Lymphoma Malignant	
* Kidney		Cyst	Moderate
	Renal Tubule	Nephropathy	Mild
		Pigmentation	Minimal
* Liver [ Hepatocellular Carcinoma TGLS = 2-21, 3-22, 4-23 ]		Hepatocellular Carcinoma	Multiple
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Seminal Vesicle [ Inflammation TGLS = 1-7 ]		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:40  
First Dose M/F: NA / NA  
Lab: SRI

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<b>ANIMAL ID:</b> 93	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 631
	<b>DOSE:</b> 160 PPM	<b>DISP:</b> Natural Death	<b>HISTO:</b> 96-74868

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

\* Mammary Gland

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**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

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**INSUFFICIENT TISSUE**

\* Pituitary Gland

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild

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PRIMARY CAUSE OF DEATH - UNCERTAIN

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76714

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Minimal
* Intestine Small, Jejunum	Peyers Patch	Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 3-22 ]			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 2-21, 5-23 ]			
* Seminal Vesicle		Dilatation	Moderate
[ Dilatation TGLS = 1-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
Tooth		Developmental Malformation	Moderate
[ Developmental Malformation TGLS = 4-9 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:40  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 95	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 369
	<b>DOSE:</b> 160 PPM	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 95-73630

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Liver

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76715

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex	Capsule	Adenoma	
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 1-21 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 2-8 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76716

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 3-6 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 4-2 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76717

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 2-21 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 3-2 ]		
* Seminal Vesicle		Dilatation	Mild
	[ Dilatation TGLS = 1-7 ]		
* Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 99	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 160 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76718

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	Skeletal Muscle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Marked
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 3-21 ]			
* Preputial Gland		Inflammation	Chronic, Moderate
[ Inflammation TGLS = 1-8 ]			
* Seminal Vesicle		Dilatation	Moderate
[ Dilatation TGLS = 2-7 ]			

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 052111-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 100

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 160 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77246

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Pelvis	Dilatation	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
[ Dilatation TGLS = 1-5 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
Tooth		Developmental Malformation	Moderate
	Epithlm Alvlus	Hyperplasia	Moderate

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 101

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76719

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Gallbladder	* Mammary Gland
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OBSERVATIONS

* Gallbladder			
Note: Gallbladder could not be discerned among liver tissues, which were greatly distorted by hepatocellular carcinoma.			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Carcinoma	Multiple
[ Hepatocellular Carcinoma TGLS = 4-6, 5-6 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
[ Hepatocellular Carcinoma TGLS = 8-2 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
Note: One preputial gland is missing.			
[ Degeneration TGLS = 2-8 ]			
* Seminal Vesicle		Dilatation	Moderate
[ Dilatation TGLS = 2-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 102

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-77247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Kidney		Cyst	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
[ Hepatocellular Adenoma TGLS = 3-21 ]			
[ Hepatocellular Carcinoma TGLS = 2-6 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 4-2 ]			
* Seminal Vesicle		Dilatation	Mild
[ Dilatation TGLS = 1-7 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 103

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 160 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76720

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLS = 2-6, 3-21 ]		
* Parathyroid Gland		Cyst	Moderate
* Seminal Vesicle		Dilatation	Mild
	[ Dilatation TGLS = 1-7 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 104

TRT#: 3

SEX: Male

DAY ON TEST: 554

DOSE: 160 PPM

DISP: Natural Death

HISTO: 96-74473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

\* Intestine Small, Jejunum

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
		Necrosis	Focal, Moderate
	[ Hepatocellular Carcinoma TGLS = 3-21 ]		
	[ Necrosis TGLS = 4-6 ]		
* Seminal Vesicle		Dilatation	Moderate

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 105

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 160 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76721

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

Harderian Gland [ Adenoma TGLS = 1-21 ]		Adenoma	
* Kidney	Renal Tubule	Nephropathy Pigmentation Hepatocellular Carcinoma	Moderate Minimal Multiple
* Liver [ Hepatocellular Carcinoma TGLS = 3-22, 4-23 ]		Alveolar/Bronchiolar Adenoma	
* Lung		Atrophy	Marked
* Preputial Gland Note: Development of preputial glands in this mouse is similar in size to that of the clitoral glands in a female. [ Atrophy TGLS = 2-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 106

**TRT#:** 3  
**DOSE:** 160 PPM

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 369  
**HISTO:** 95-73631

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Inflammation	Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 107	<b>TRT#:</b> 3 <b>DOSE:</b> 160 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> 96-76722
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Kidney	Renal Tubule	Nephropathy Pigmentation	Mild Minimal
* Lung	[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2 ]	Alveolar/Bronchiolar Carcinoma	
* Preputial Gland	[ Inflammation TGLS = 1-8 ]	Inflammation	Chronic, Marked
* Thyroid Gland	Follicular Cel	Adenoma	Multiple
Tooth		Developmental Malformation	Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

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<b>ANIMAL ID:</b> 108	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 695
	<b>DOSE:</b> 160 PPM	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 96-75677

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

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**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Kidney	Pelvis	Dilatation	Mild
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Minimal
	[ Dilatation TGLS = 2-5 ]		
	[ Nephropathy TGLS = 1-5 ]		
* Liver		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLS = 3-21 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Parathyroid Gland		Cyst	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate

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PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 109

TRT#: 3

SEX: Male

DAY ON TEST: 715

DOSE: 160 PPM

DISP: Moribund Sacrifice

HISTO: 96-76496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

Harderian Gland [ Carcinoma TGLS = 1-21 ]		Carcinoma	
* Kidney	Renal Tubule	Nephropathy Pigmentation	Minimal Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

- Harderian Gland Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 110

TRT#: 3

SEX: Male

DAY ON TEST: 705

DOSE: 160 PPM

DISP: Natural Death

HISTO: 96-76254

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mesenteric	* Mammary Gland	* Thymus
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLS = 2-21 ]		
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 111

**TRT#:** 3  
**DOSE:** 160 PPM

**SEX:** Male  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 699  
**HISTO:** 96-75678

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Necrosis	Focal, Minimal
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 4-8 ]		
* Seminal Vesicle		Dilatation	Mild
	[ Dilatation TGLS = 2-7 ]		
* Thymus		Cyst	Moderate
Tooth		Developmental Malformation	Mild

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 112	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 160 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76723

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Kidney	Renal Tubule	Nephropathy Pigmentation Inflammation Dilatation	Mild Minimal Chronic, Moderate Mild
* Preputial Gland			
* Seminal Vesicle			
[ Dilatation TGLS = 1-7 ]			
* Spleen		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 2-6 ]			
* Thymus		Cyst	Mild
* Thyroid Gland	Follicle	Cyst	Mild
Tooth		Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 113

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 160 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76724

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Cyst	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Tooth		Developmental Malformation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 114

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76725

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
Note: No pigment observed in kidney.			
* Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 115

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76726

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Minimal
* Kidney		Nephropathy	Mild
Note: (No test-article-related pigment in kidney.)			
* Liver		Hepatocellular Adenoma	Multiple
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
	[ Hepatocellular Adenoma TGLS = 2-21, 3-22 ]		
	[ Vacuolization Cytoplasmic TGLS = 2-21, 3-22 ]		
* Preputial Gland		Degeneration	Cystic, Mild
* Seminal Vesicle		Dilatation	Mild
	[ Dilatation TGLS = 1-7 ]		
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tooth		Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 116	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 369
	<b>DOSE:</b> 160 PPM	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 95-73632

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Liver

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**OBSERVATIONS**

* Kidney	Mineralization	Focal, Minimal
	Nephropathy	Minimal
Renal Tubule	Pigmentation	Minimal

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 117

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-77248

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* 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

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
	[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2, 3-2, 4-2 ]		
* Testes	Germinal Epith	Degeneration	Moderate
	[ Degeneration TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 118

TRT#: 3

SEX: Male

DAY ON TEST: 632

DOSE: 160 PPM

DISP: Moribund Sacrifice

HISTO: 96-74869

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 2-21 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 3-2 ]	Hepatocellular Carcinoma	Metastatic (Liver)
* Skin	Subcut Tiss	Angiectasis	Focal, Mild
	[ Angiectasis TGLS = 1-22 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 119

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 160 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73633

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**OBSERVATIONS**

\* Kidney

Renal Tubule

Nephropathy

Minimal

Pigmentation

Minimal

\* Liver

Hepatocellular Adenoma

[ Hepatocellular Adenoma TGLS = 1-21 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 120

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 160 PPM

DISP: Terminal Sacrifice

HISTO: 96-76727

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mesenteric	* Mammary Gland
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INSUFFICIENT TISSUE

* Pituitary Gland
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Kidney		Cyst	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
	[ Hepatocellular Adenoma TGLS = 2-21 ]		
	[ Hepatocellular Carcinoma TGLS = 3-22 ]		
* Stomach, Glandular	Glands	Degeneration	Cystic, Focal, Mild
Tooth		Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 121	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 312 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76728

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
		Dilatation	Mild
* Seminal Vesicle			
[ Dilatation TGLS = 1-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

Blood Vessel	Aorta	Inflammation	Chronic, Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Inflammation	Chronic, Minimal
	[ Hepatocellular Adenoma TGLS = 3-24, 4-22, 5-23 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 2-8 ]		
* Seminal Vesicle		Dilatation	Mild
* Skin		Cyst Epithelial Inclusion	Moderate
	[ Cyst Epithelial Inclusion TGLS = 1-21 ]		
Tooth		Developmental Malformation	Moderate
		Inflammation	Suppurative, Chronic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-76729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	Tissue NOS	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[ Eosinophilic Focus TGLS = 3-22 ]		
	[ Hepatocellular Adenoma TGLS = 2-21 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 579

DOSE: 312 PPM

DISP: Natural Death

HISTO: 96-74626

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

AUTO PRECLUDES DIAG.

\* Intestine Small, Jejunum

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Epithelium, Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Pigmentation	Minimal
Note: Some of pigment in kidney is hemosiderin granules due to abdominal hemorrhage; minimal pigment in kidney is related to test article.			
* Liver		Hepatocellular Carcinoma	Multiple
		Necrosis	Focal, Mild
	[ Hepatocellular Carcinoma TGLS = 3-21, 4-22 ]		
	[ Necrosis TGLS = 5-23 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	[ Hepatocellular Carcinoma TGLS = 7-2 ]		
Mesentery		Hepatocellular Carcinoma	Metastatic (Liver)
	[ Hepatocellular Carcinoma TGLS = 2-7 ]		
* Skin	Subcut Tiss	Hepatocellular Carcinoma	Metastatic (Liver)
	[ Hepatocellular Carcinoma TGLS = 8-25 ]		
Tissue NOS	Abdominal	Hemorrhage	Marked
	[ Hemorrhage TGLS = 6-24 ]		

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 124

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 579

**DOSE:** 312 PPM

**DISP:** Natural Death

**HISTO:** 96-74626

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

---

**ANIMAL ID:** 125

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 312 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73634

---

**OBSERVATIONS**

\* Bone

Hyperostosis

Minimal

\* Kidney

Nephropathy

Minimal

Renal Tubule

Pigmentation

Mild

\* Liver

Hepatocellular Adenoma

[ Hepatocellular Adenoma TGLS = 1-21 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver	Hepatocyte	Fatty Change	Diffuse, Moderate
* Preputial Gland		Degeneration	Cystic, Marked
		Inflammation	Chronic, Moderate
[ Degeneration TGLS = 1-8 ]			
[ Inflammation TGLS = 1-8 ]			
* Seminal Vesicle		Dilatation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 581

DOSE: 312 PPM

DISP: Natural Death

HISTO: 96-74635

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Carcinoma	
		Necrosis	Focal, Mild
	[ Hepatocellular Carcinoma TGLS = 1-21 ]		
	[ Necrosis TGLS = 2-22 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 128

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 312 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76730

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Metaplasia	Osseous, Focal, Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
		Hepatocellular Adenoma	
* Liver			
	[ Hepatocellular Adenoma TGLS = 2-6 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 3-2 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Thyroid Gland		Inflammation	Chronic, Focal, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 129

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 312 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76731

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
Note: Fine bubbles (artifact) on kidney slide give false impression of fine particles of pigment in addition to pigment caused by test article.			
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 3-21 ]		
Mesentery		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 5-22 ]		
* Spleen		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 2-6 ]		
* Stomach, Forestomach		Ulcer	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 130

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 312 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77251

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 2-21 ]		
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
	[ Alveolar/Bronchiolar Adenoma TGLS = 3-2 ]		
* Seminal Vesicle		Dilatation	Minimal
	[ Dilatation TGLS = 1-7 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 052111-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
		Dilatation	Moderate
* Seminal Vesicle			
[ Dilatation TGLS = 1-7 ]			
* Skin	Subcut Tiss	Hemangioma	
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Cyst	Mild
Tooth		Developmental Malformation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 541

DOSE: 312 PPM

DISP: Moribund Sacrifice

HISTO: 96-74439

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Epididymis             | * Esophagus                | * Gallbladder             |
| * 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 | * Lymph Node, Mesenteric   | * Nose                    |
| * Pancreas                  | * Pituitary Gland        | * Prostate                 | * Salivary Glands         |
| * Seminal Vesicle           | * Skin                   | * Spleen                   | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Testes                 | * Thymus                   | * Thyroid Gland           |
| * Trachea                   | * Urinary Bladder        |                            |                           |

MISSING

- |                 |                     |
|-----------------|---------------------|
| * Mammary Gland | * Parathyroid Gland |
|-----------------|---------------------|

OBSERVATIONS

- |                   |  |                          |              |
|-------------------|--|--------------------------|--------------|
| * Kidney          |  | Nephropathy              | Minimal      |
|                   | Renal Tubule                             | Pigmentation             | Minimal      |
| * Liver           |  | Hepatocellular Carcinoma |              |
|                   | [ Hepatocellular Carcinoma TGLS = 3-21 ] |                          |              |
| * Preputial Gland |  | Degeneration             | Cystic, Mild |
|                   | [ Degeneration TGLS = 1-8 ]              |                          |              |

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

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<b>ANIMAL ID:</b> 133	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 312 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76732

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 2-22 ]		
	[ Hepatocellular Carcinoma TGLS = 1-21 ]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 497

DOSE: 312 PPM

DISP: Moribund Sacrifice

HISTO: 96-74074

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 1-21 ]		
	[ Hepatocellular Carcinoma TGLS = 2-22 ]		
* Pancreas		Hemangioma	
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-76733

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Cyst	Moderate
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
	[ Vacuolization Cytoplasmic TGLS = 3-6 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
* Nose		Inflammation	Suppurative, Mild
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Seminal Vesicle		Dilatation	Mild
	[ Dilatation TGLS = 2-7 ]		
* Thymus		Cyst	Mild
Tooth		Developmental Malformation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 136

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 312 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76734

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Intestine Small, Jejunum [ Carcinoma TGLS = 3-22 ]		Carcinoma	
* Kidney [ Pigmentation TGLS = 2-5 ]	Renal Tubule	Nephropathy Pigmentation	Mild Mild
* Spleen		Hematopoietic Cell Proliferation	Marked

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 137	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 312 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-77253

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
	[ Adenoma TGLS = 2-21 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 4-2 ]		
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
	[ Hyperplasia TGLS = 5-2 ]		
* Parathyroid Gland		Cyst	Mild
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Seminal Vesicle		Dilatation	Moderate
	[ Dilatation TGLS = 3-7 ]		
Tooth		Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 138

**TRT#:** 5  
**DOSE:** 312 PPM

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 369  
**HISTO:** 95-73635

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Inflammation	Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77254

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Focal, Moderate
* Int Sm Jejunum			
Note: Jejunal mass reported at necropsy apparently was an agonal condition (artifact) simulating intussusception, without tissue alterations.			
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 1-21, 2-22 ]			
* Seminal Vesicle		Dilatation	Mild
Tooth		Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 140

**TRT#:** 5  
**DOSE:** 312 PPM

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 369  
**HISTO:** 95-73636

---

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 1-21 ]			

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-76735

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Gallbladder	Epithelium	Hyperplasia Inflammation	Moderate Chronic, Moderate
* Kidney		Cyst Nephropathy	Mild Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-21 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Seminal Vesicle		Dilatation	Mild
[ Dilatation TGLS = 3-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
Tooth		Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 142	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 369
	<b>DOSE:</b> 312 PPM	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 95-73637

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77255

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Adenoma	
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Mild
	[ Alveolar/Bronchiolar Adenoma TGLS = 2-2 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
Tooth		Developmental Malformation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 144

**TRT#:** 5  
**DOSE:** 312 PPM

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 369  
**HISTO:** 95-73638

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Inflammation	Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77256

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Epididymis		Inflammation	Chronic, Moderate
* Kidney	Pelvis	Dilatation	Moderate
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Minimal
	[ Dilatation TGLS = 3-5 ]		
* Lymph Node, Mesenteric		Hemorrhage	Moderate
	[ Hemorrhage TGLS = 4-5 ]		
* Preputial Gland		Degeneration	Cystic, Mild
* Seminal Vesicle		Dilatation	Moderate
	[ Dilatation TGLS = 1-7 ]		
Tooth		Developmental Malformation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-76736

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Intestine Large, Cecum [ Carcinoma TGLS = 3-22 ]		Carcinoma	
* Kidney	Renal Tubule	Nephropathy Pigmentation	Mild Mild
* Liver		Angiectasis Hepatocellular Adenoma	Mild
[ Hepatocellular Adenoma TGLS = 4-23 ]			
* Spleen [ Hemangiosarcoma TGLS = 1-6, 2-21 ]		Hemangiosarcoma	
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tooth		Developmental Malformation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 312 PPM

DISP: Moribund Sacrifice

HISTO: 96-76737

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

INSUFFICIENT TISSUE

\* Pituitary Gland

OBSERVATIONS

* Intestine Small, Duodenum [ Polyp Adenomatous TGLS = 6-22 ]		Polyp Adenomatous	
* Intestine Small, Ileum [ Lymphoma Malignant TGLS = 7-23 ]		Lymphoma Malignant	
* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 8-24 ]		Lymphoma Malignant	
* Kidney [ Pigmentation TGLS = 4-5 ]	Renal Tubule	Nephropathy Pigmentation	Mild Mild
* Liver [ Hepatocellular Carcinoma TGLS = 9-25, 10-6, 11-26 ]		Hepatocellular Carcinoma Lymphoma Malignant	Multiple
Lymph Node [ Lymphoma Malignant TGLS = 12-27 ] [ Lymphoma Malignant TGLS = 13-2 ]	Mediastinal Renal	Lymphoma Malignant Lymphoma Malignant	
* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 5-21 ]		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 147	<b>TRT#:</b> 5 <b>DOSE:</b> 312 PPM	<b>SEX:</b> Male <b>DISP:</b> Moribund Sacrifice	<b>DAY ON TEST:</b> 727 <b>HISTO:</b> 96-76737
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Preputial Gland [ Degeneration TGLS = 1-8 ]	Degeneration	Cystic, Moderate
* Spleen [ Hematopoietic Cell Proliferation TGLS = 3-6 ] [ Lymphoma Malignant TGLS = 3-6 ]	Hematopoietic Cell Proliferation Lymphoma Malignant	Moderate
* Thyroid Gland Tooth	Degeneration Developmental Malformation	Cystic, Focal, Mild Moderate

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**PRIMARY CAUSE OF DEATH** - Lymph Node, Mesenteric Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 148

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 312 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76738

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Carcinoma	
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
	[ Hepatocellular Carcinoma TGLS = 1-21 ]		
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-76739

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Adenoma	
* Kidney		Cyst	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
 Test Type: CHRONIC  
 Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Test Compound: Emodin  
 CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
 Time Report Requested: 03:18:41  
 First Dose M/F: NA / NA  
 Lab: SRI

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-76740

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Testes	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Kidney	Renal Tubule	Carcinoma	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
	[ Carcinoma TGLS = 2-5 ]		
* Liver		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLS = 3-21, 4-6, 5-22 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 1-6 ]		
* Stomach, Glandular	Glands	Degeneration	Cystic, Focal, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
	[ Hyperplasia TGLS = 7-3 ]		
Tooth		Developmental Malformation	Moderate
		Inflammation	Suppurative, Chronic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 151

TRT#: 5

SEX: Male

DAY ON TEST: 688

DOSE: 312 PPM

DISP: Moribund Sacrifice

HISTO: 96-75571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Testes	* Thyroid Gland
* Trachea			

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Kidney		Nephropathy	Marked
	Renal Tubule	Pigmentation	Minimal
[ Nephropathy TGLS = 1-5 ]			
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 2-21 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Nose	Nasolacrim Dct, Squam Epithel	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Epithelium	Cyst	Minimal
* Stomach, Glandular	Glands	Degeneration	Cystic, Focal, Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 152

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-76741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex [ Adenoma TGLS = 1-21 ]	Capsule	Adenoma	
* Kidney	Renal Tubule	Nephropathy Pigmentation	Minimal Minimal
* Liver [ Hepatocellular Carcinoma TGLS = 2-22 ]	Hepatocyte	Hepatocellular Carcinoma Vacuolization Cytoplasmic	Focal, Minimal
* Lung [ Alveolar/Bronchiolar Carcinoma TGLS = 4-2 ]		Alveolar/Bronchiolar Carcinoma	
Lymph Node	Pancreatic	Hyperplasia	Moderate
* Lymph Node, Mesenteric [ Hyperplasia TGLS = 3-5 ]		Hyperplasia	Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tooth		Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 153

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 312 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76742

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 3-22 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
	[ Hyperplasia TGLS = 4-5 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLS = 2-21 ]		
* Seminal Vesicle		Dilatation	Mild
	[ Dilatation TGLS = 1-7 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 154

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 312 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73639

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Liver

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**OBSERVATIONS**

\* Kidney

Renal Tubule

Nephropathy

Minimal

Pigmentation

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 155

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 312 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77257

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Capsule	Adenoma	
Harderian Gland		Adenoma	
[ Adenoma TGLS = 3-22 ]			
* Kidney	Renal Tubule	Nephropathy	Mild
		Pigmentation	Mild
* Liver	Hepatocyte	Hepatocellular Carcinoma	
		Vacuolization Cytoplasmic	Focal, Mild
[ Hepatocellular Carcinoma TGLS = 2-21 ]			
* Seminal Vesicle		Dilatation	Moderate
[ Dilatation TGLS = 1-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 156

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77258

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Nephropathy Pigmentation Degeneration	Mild Mild Cystic, Moderate
* Preputial Gland [ Degeneration TGLS = 1-8 ]			
* Seminal Vesicle		Dilatation	Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tooth		Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 052111-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 157

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 312 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76743

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Pituitary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
		Degeneration	Cystic, Moderate
* Preputial Gland			
[ Degeneration TGLS = 1-8 ]			
* Stomach, Glandular	Glands	Degeneration	Cystic, Focal, Mild
	Epithelium	Hyperplasia	Mild
Tooth		Developmental Malformation	Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 158

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-76744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Intestine Small, Duodenum		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-21 ]			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 4-22, 5-23 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Seminal Vesicle		Dilatation	Mild
[ Dilatation TGLS = 2-7 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
	Follicular Cel	Hyperplasia	Minimal
Tooth		Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 159

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77259

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
	[ Vacuolization Cytoplasmic TGLS = 1-21 ]		
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 160

TRT#: 5

SEX: Male

DAY ON TEST: 572

DOSE: 312 PPM

DISP: Moribund Sacrifice

HISTO: 96-74627

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Intestine Small, Jejunum		Leiomyosarcoma	
[ Leiomyosarcoma TGLS = 10-25 ]			
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
		Leiomyosarcoma	Metastatic (Intestine Small, Jejunum)
[ Hepatocellular Carcinoma TGLS = 7-23 ]			
[ Leiomyosarcoma TGLS = 5-6, 6-22, 7-23 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 9-2 ]			
Mesentery		Leiomyosarcoma	Metastatic (Intestine Small, Jejunum)
[ Leiomyosarcoma TGLS = 3-21 ]			
* Pancreas	Acinus	Atrophy	Focal, Mild
		Leiomyosarcoma	Metastatic (Intestine Small, Jejunum)
[ Atrophy TGLS = 4-7 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 160

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 572

**DOSE:** 312 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 96-74627

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**ORGAN AND ACCOUNTABLE SITE STATUS**

Skeletal Muscle  
[ Leiomyosarcoma TGLS = 8-24 ]

Leiomyosarcoma

Metastatic (Intestine Small, Jejunum)

\* Spleen  
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]

Hematopoietic Cell Proliferation

Moderate

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**PRIMARY CAUSE OF DEATH** - Intestine Small, Jejunum Leiomyosarcoma

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Animal Note: Principal lesion is a widespread leiomyosarcoma originating in the small intestine - jejunum.

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 161	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 369
	<b>DOSE:</b> 312 PPM	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 95-73640

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Liver

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 162

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 726

**DOSE:** 312 PPM

**DISP:** Natural Death

**HISTO:** 96-76745

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLS = 3-21, 4-22 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Note: Lung contains multiple metastatic foci of hepatocellular carcinoma. [ Hepatocellular Carcinoma TGLS = 5-2 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland			
	Note: Thymus is on slide 3.		

**PRIMARY CAUSE OF DEATH**

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 163

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77260

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Intestine Small, Jejunum [ Carcinoma TGLS = 3-21 ]		Carcinoma	
* Kidney	Renal Tubule	Nephropathy Pigmentation	Mild Mild
* Liver [ Hepatocellular Carcinoma TGLS = 2-6 ]		Hepatocellular Carcinoma	
* Spleen [ Hematopoietic Cell Proliferation TGLS = 1-6 ]		Hematopoietic Cell Proliferation Hyperplasia	Moderate Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 164

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 312 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73641

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Liver

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**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 165

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-76746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	Zymbal's Gland	

OBSERVATIONS

Harderian Gland		Carcinoma	
[ Carcinoma TGLS = 1-21 ]			
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 166

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77261

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 1-21 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Note: Metastatic lesions of hepatocellular carcinoma in lung are very small but unequivocal.		
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 167

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-76747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
	[ Vacuolization Cytoplasmic TGLS = 4-6 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Seminal Vesicle		Dilatation	Moderate
	Note: Seminal vesicle also shows hemorrhage, a diagnosis not available for that organ in TDMS.		
	[ Dilatation TGLS = 2-7, 3-7 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tooth		Developmental Malformation	Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 168

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-76748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Parathyroid Gland
-----------------	---------------------

OBSERVATIONS

Harderian Gland [ Adenoma TGLS = 5-21 ]		Adenoma	
* Kidney		Metaplasia	Osseous, Focal, Mild
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Minimal
* Liver [ Hepatocellular Adenoma TGLS = 2-6, 3-6 ]		Hepatocellular Adenoma	Multiple
* Lung		Alveolar/Bronchiolar Adenoma	
* Preputial Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Moderate
* Thyroid Gland [ Hyperplasia TGLS = 4-3 ]	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 169	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 369
	<b>DOSE:</b> 312 PPM	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 95-73642

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Liver

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**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 170

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 688

**DOSE:** 312 PPM

**DISP:** Natural Death

**HISTO:** 96-75572

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Skin
* Testes	* Trachea		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Inflammation	Suppurative, Moderate
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Minimal
[ Nephropathy TGLS = 4-5 ]			
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 6-21 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 9-2 ]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
[ Hemorrhage TGLS = 7-5 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8-1 ]			
* Seminal Vesicle		Dilatation	Moderate
		Inflammation	Chronic, Moderate
[ Dilatation TGLS = 2-7-1 ]			
* Spleen		Depletion Cellular	Mild
[ Depletion Cellular TGLS = 5-6 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Stomach, Glandular	Glands	Degeneration	Cystic, Focal, Mild
		Erosion	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 170	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 688
	<b>DOSE:</b> 312 PPM	<b>DISP:</b> Natural Death	<b>HISTO:</b> 96-75572

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Erosion TGLS = 10-22 ]	Pigmentation	Focal, Minimal
[ Pigmentation TGLS = 10-22 ]		
* Thymus	Cyst	Mild
* Thyroid Gland	Degeneration	Cystic, Focal, Mild
Tooth	Developmental Malformation	Moderate
* Urinary Bladder	Transit Epithe	Mild
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy	

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 052111-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 171

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 312 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76749

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Bone		Hyperostosis	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
		Dilatation	Mild
* Seminal Vesicle			
[ Dilatation TGLS = 1-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 172

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 312 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76750

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	Mesentery	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

**MISSING**

* Mammary Gland	* Pituitary Gland	* Thymus
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**OBSERVATIONS**

* Intestine Small, Jejunum [ Carcinoma TGLS = 7-21 ]		Carcinoma	
* Kidney [ Pigmentation TGLS = 3-5 ]	Renal Tubule	Nephropathy Pigmentation	Minimal Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mesenteric [ Hemorrhage TGLS = 4-5 ]		Hemorrhage	Mild
* Spleen [ Hematopoietic Cell Proliferation TGLS = 1-6 ]		Hematopoietic Cell Proliferation	Marked
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 173

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 312 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76751

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Testes	* Thymus	* Trachea
* Urinary Bladder			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 3-21 ]		
Mesentery		Inflammation	Chronic, Marked
	[ Inflammation TGLS = 4-22 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		
* Stomach, Glandular	Glands	Degeneration	Cystic, Focal, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 174

TRT#: 5

SEX: Male

DAY ON TEST: 639

DOSE: 312 PPM

DISP: Moribund Sacrifice

HISTO: 96-74944

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

INSUFFICIENT TISSUE

\* Pituitary Gland

OBSERVATIONS

* Kidney		Nephropathy	Marked
	Renal Tubule	Pigmentation	Minimal
	[ Nephropathy TGLS = 3-5 ]		
* Liver		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLS = 4-6 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Preputial Gland		Degeneration	Cystic, Moderate
		Inflammation	Chronic, Moderate
	[ Degeneration TGLS = 1-8 ]		
	[ Inflammation TGLS = 1-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 175

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-76752

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 1-6, 2-21 ]		
* Preputial Gland		Degeneration	Cystic, Mild
* Seminal Vesicle		Dilatation	Mild
	[ Dilatation TGLS = 3-7 ]		
Tooth		Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 176

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 312 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73643

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Liver

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**OBSERVATIONS**

\* Kidney

Renal Tubule

Nephropathy

Minimal

Pigmentation

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 177

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-76753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

INSUFFICIENT TISSUE

\* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Moderate
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 3-6, 4-21 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 5-2 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8, 2-8 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 178

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-76754

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Moderate
Harderian Gland		Adenoma	
[ Adenoma TGLS = 2-21 ]			
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
[ Hyperplasia TGLS = 1-2 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 179

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 312 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76755

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Intestine Small, Jejunum [ Carcinoma TGLS = 3-21 ]		Carcinoma	
* Kidney	Renal Tubule	Nephropathy Pigmentation Degeneration	Minimal Minimal Cystic, Moderate
* Preputial Gland [ Degeneration TGLS = 1-8 ]			
* Spleen [ Hematopoietic Cell Proliferation TGLS = 2-6 ]		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Degeneration Hyperplasia	Cystic, Focal, Minimal Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 180

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77262

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 1-6, 3-22 ]		
	[ Hepatocellular Carcinoma TGLS = 2-21 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 4-2 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76756

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 3-21 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Seminal Vesicle		Dilatation	Mild
	[ Dilatation TGLS = 2-7 ]		
* Thyroid Gland	Follicle	Cyst	Moderate
Tooth		Developmental Malformation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77263

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 2-21 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Squamous Cell Carcinoma	
	[ Squamous Cell Carcinoma TGLS = 3-22 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 183

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 625 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73644

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

---

**OBSERVATIONS**

\* Kidney

Renal Tubule

Nephropathy

Mild

Pigmentation

Moderate

[ Pigmentation TGLS = 2-5 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 184

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 625 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73645

---

**OBSERVATIONS**

\* Kidney

Renal Tubule

Nephropathy

Minimal

Pigmentation

Mild

[ Pigmentation TGLS = 2-5 ]

\* Liver

Inflammation

Focal, Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76757

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Thymus
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INSUFFICIENT TISSUE

* Parathyroid Gland
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OBSERVATIONS

* Kidney	Pelvis	Dilatation Nephropathy Pigmentation	Mild Mild Moderate
[ Dilatation TGLS = 5-21 ] [ Nephropathy TGLS = 3-5 ] [ Pigmentation TGLS = 4-5 ]	Renal Tubule		
* Pituitary Gland * Preputial Gland	Pars Distalis	Cyst Degeneration Inflammation	Mild Cystic, Moderate Chronic, Moderate
[ Degeneration TGLS = 1-8 ] [ Inflammation TGLS = 2-8 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 186

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76758

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

Harderian Gland [ Adenoma TGLS = 2-21 ]		Adenoma	
* Kidney	Renal Tubule	Nephropathy Pigmentation Clear Cell Focus	Mild Marked
* Liver		Lipomatosis	Mild
* Pancreas		Degeneration	Cystic, Moderate
* Preputial Gland [ Degeneration TGLS = 1-8 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 052111-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 187

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76759

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex		Hypertrophy	Focal, Marked
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
Tooth		Developmental Malformation	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76760

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Nephropathy Pigmentation	Mild Marked
* Liver		Hepatocellular Adenoma	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 2-8 ]		
Tooth		Developmental Malformation	Marked
	[ Developmental Malformation TGLS = 1-9 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 052111-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77264

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Pelvis	Dilatation	Moderate
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Marked
	[ Dilatation TGLS = 3-5 ]		
	[ Pigmentation TGLS = 4-5 ]		
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 5-21 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 190

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76761

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Mild
	[ Hepatocellular Carcinoma TGLS = 5-21 ]		
	[ Vacuolization Cytoplasmic TGLS = 4-6 ]		
* Lymph Node, Mesenteric		Hemorrhage	Mild
	[ Hemorrhage TGLS = 3-5 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Seminal Vesicle		Dilatation	Mild
	[ Dilatation TGLS = 2-7 ]		
* Spleen		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77265

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Bone Marrow		Inflammation	Chronic, Focal, Mild
* Kidney		Cyst	Mild
	Pelvis	Dilatation	Mild
	Renal Tubule	Dilatation	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Marked
[ Cyst TGLS = 3-21 ]			
[ Dilatation TGLS = 4-5 ]			
[ Pigmentation TGLS = 5-5 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 192

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 625 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73646

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**OBSERVATIONS**

\* Kidney

Nephropathy

Mild

Renal Tubule

Pigmentation

Mild

[ Pigmentation TGLS = 2-5 ]

\* Liver

Inflammation

Focal, Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76762

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

Harderian Gland [ Adenoma TGLS = 5-21 ]		Adenoma	
* Kidney	Pelvis	Dilatation	Mild
	Renal Tubule	Dilatation	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Marked
* Preputial Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76763

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Gallbladder	* Mammary Gland	* Thymus
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OBSERVATIONS

Harderian Gland [ Carcinoma TGLS = 3-23 ]		Carcinoma	
* Kidney [ Pigmentation TGLS = 4-5 ]	Renal Tubule	Nephropathy Pigmentation	Mild Mild
* Liver [ Fatty Change TGLS = 2-22 ] [ Hepatocellular Adenoma TGLS = 1-21, 2-22 ]	Hepatocyte Hepatocyte	Fatty Change Hepatocellular Adenoma Vacuolization Cytoplasmic	Diffuse, Moderate Multiple Focal, Minimal
* Seminal Vesicle		Dilatation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 195

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76764

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
	[ Pigmentation TGLS = 3-5 ]		
* Liver		Infarct	Marked
	[ Infarct TGLS = 5-21 ]		
* Nose		Inflammation	Suppurative, Mild
* Seminal Vesicle		Dilatation	Moderate
	[ Dilatation TGLS = 1-7 ]		
Tooth		Developmental Malformation	Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

Harderian Gland [ Carcinoma TGLS = 2-22 ]		Carcinoma	
* Kidney	Renal Tubule	Carcinoma	
	Renal Tubule	Nephropathy	Mild
	[ Carcinoma TGLS = 1-21 ]	Pigmentation	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
* Thyroid Gland	Follicular Cel	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 197

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 625 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73647

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**OBSERVATIONS**

\* Kidney

Renal Tubule

Nephropathy

Mild

\* Liver

Pigmentation

Mild

Inflammation

Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 198

TRT#: 7

DOSE: 625 PPM

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 96-76766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

\* Adren Cortex

Note: One adrenal gland is missing.

\* Intestine Small, Jejunum

[ Lymphoma Malignant TGLS = 6-23 ]

Lymphoma Malignant

\* Kidney

Renal Tubule

Accumulation, Hyaline Droplet

Moderate

Lymphoma Malignant

Nephropathy

Minimal

Pigmentation

Minimal

\* Liver

Renal Tubule

Hepatocellular Carcinoma

Lymphoma Malignant

[ Hepatocellular Carcinoma TGLS = 5-22 ]

\* Lung

Mediastinum

Lymphoma Malignant

Lymphoma Malignant

Lymph Node

Iliac

Lymphoma Malignant

Mediastinal

Lymphoma Malignant

Pancreatic

Lymphoma Malignant

Renal

Lymphoma Malignant

[ Lymphoma Malignant TGLS = 8-25 ]

[ Lymphoma Malignant TGLS = 4-21 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 198

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76766

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Lymphoma Malignant TGLS = 7-24 ]

Mesentery

Lymphoma Malignant

\* Pancreas

Lymphoma Malignant

\* Preputial Gland

Degeneration

Cystic, Moderate

[ Degeneration TGLS = 1-8 ]

\* Spleen

Lymphoma Malignant

[ Lymphoma Malignant TGLS = 3-6 ]

\* Thymus

Lymphoma Malignant

[ Lymphoma Malignant TGLS = 9-2 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 199

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 625 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73648

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**OBSERVATIONS**

\* Kidney

Renal Tubule

Nephropathy

Minimal

\* Liver

Pigmentation

Minimal

Inflammation

Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin

**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 03:18:41

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

**Lab:** SRI

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**ANIMAL ID:** 200

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 625 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-63649

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**OBSERVATIONS**

\* Kidney

Renal Tubule

Nephropathy

Minimal

Pigmentation

Minimal

\* Liver

Hepatocellular Carcinoma

[ Hepatocellular Carcinoma TGLS = 1-21 ]

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 201

TRT#: 7

SEX: Male

DAY ON TEST: 604

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 96-74794

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Degeneration Nephropathy	Mild Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Hemangiosarcoma Necrosis	Focal, Moderate
	[ Hemangiosarcoma TGLS = 4-22 ]		
	[ Necrosis TGLS = 3-6 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
Skeletal Muscle		Hemangiosarcoma	Metastatic (Liver)
	[ Hemangiosarcoma TGLS = 2-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH - Liver Hemangiosarcoma

CONTRIBUTORY CAUSE OF DEATH - Liver Necrosis

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 052111-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 202

TRT#: 7

SEX: Male

DAY ON TEST: 684

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 96-75546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Carcinoma	
		Necrosis	Focal, Marked
	[ Hepatocellular Carcinoma TGLS = 2-21 ]		
	[ Necrosis TGLS = 2-21 ]		
* Lymph Node, Mesenteric		Hemorrhage	Moderate
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 203

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76767

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Cyst	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
[ Cyst TGLS = 2-21 ]			
* Liver		Clear Cell Focus	
	Hepatocyte	Eosinophilic Focus	
[ Clear Cell Focus TGLS = 3-22 ]		Vacuolization Cytoplasmic	Focal, Minimal
[ Eosinophilic Focus TGLS = 4-23 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 052111-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 204

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Clear Cell Focus	
	Hepatocyte	Eosinophilic Focus	
		Vacuolization Cytoplasmic	Focal, Mild
	[ Clear Cell Focus TGLS = 2-6 ]		
	[ Eosinophilic Focus TGLS = 2-6 ]		
	[ Vacuolization Cytoplasmic TGLS = 2-6 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 4-21 ]		
* Seminal Vesicle		Dilatation	Marked
	[ Dilatation TGLS = 1-7 ]		
Tooth		Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 205

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77266

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Marked
	[ Nephropathy TGLS = 2-5 ]		
	[ Pigmentation TGLS = 3-5 ]		
* Lymph Node, Mesenteric		Hemorrhage	Moderate
	[ Hemorrhage TGLS = 4-5 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
* Seminal Vesicle		Dilatation	Mild
	[ Dilatation TGLS = 1-7 ]		
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 206

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 625 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73650

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**OBSERVATIONS**

\* Kidney

Nephropathy

Minimal

Renal Tubule

Pigmentation

Minimal

\* Liver

Inflammation

Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 207

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76769

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymsus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Basophilic Focus	
		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLS = 3-6 ]		
* Lung		Hemorrhage	Mild
	[ Hemorrhage TGLS = 6-21 ]		
* Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Mild
	[ Hyperplasia TGLS = 4-5 ]		
* Seminal Vesicle		Dilatation	Moderate
	[ Dilatation TGLS = 1-7 ]		
Tooth		Developmental Malformation	Moderate
	[ Developmental Malformation TGLS = 5-9 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 208	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 369
	<b>DOSE:</b> 625 PPM	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 95-73651

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Liver

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**OBSERVATIONS**

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
[ Pigmentation TGLS = 2-5 ]			

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 209

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77267

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Marked
[ Pigmentation TGLS = 2-5 ]			
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 1-21 ]			
Mesentery		Inflammation	Chronic, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 210

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76770

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Pituitary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 2-21 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 211

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2 ]		
* Seminal Vesicle		Dilatation	Moderate
	[ Dilatation TGLS = 1-7 ]		
* Stomach, Glandular		Inflammation	Focal, Mild
Tooth		Developmental Malformation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 212

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Pituitary Gland	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Kidney		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Adenoma TGLS = 3-21, 6-24 ]		
	[ Hepatocellular Carcinoma TGLS = 4-22, 5-23 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Note: Metastatic lesions of hepatocellular carcinoma in lung are very small but distinct.		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 213

TRT#: 7

SEX: Male

DAY ON TEST: 281

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 95-72683

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
		Carcinoma	
* Parathyroid Gland			
[ Carcinoma TGLS = 1-21 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Thymus		Atrophy	Moderate
Tissue NOS			

Note: TGL 1 is invasive solid carcinoma in thyroid region, of compact, uniform cells with round to oval nuclei. Precise origin uncertain without special techniques.

PRIMARY CAUSE OF DEATH

- Parathyroid Gland Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 214	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 625 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76773

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			

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**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
		Degeneration	Cystic, Moderate
* Preputial Gland [ Degeneration TGLS = 1-8 ]			
* Seminal Vesicle [ Dilatation TGLS = 2-7 ]		Dilatation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 215

TRT#: 7

SEX: Male

DAY ON TEST: 632

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 96-74870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mesenteric	* Mammary Gland	* Thymus
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OBSERVATIONS

* Kidney		Carcinoma	Metastatic (Pancreas)
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[ Carcinoma TGLS = 1-21 ]			
* Liver		Hepatocellular Carcinoma	Multiple
[ Hepatocellular Carcinoma TGLS = 6-24, 7-25 ]			
* Lung		Carcinoma	Metastatic (Pancreas)
		Hepatocellular Carcinoma	Metastatic (Liver)
[ Carcinoma TGLS = 8-2 ]			
[ Hepatocellular Carcinoma TGLS = 8-2 ]			
Mesentery		Carcinoma	Metastatic (Pancreas)
[ Carcinoma TGLS = 4-23 ]			
* Pancreas	Duct	Carcinoma	
		Hepatocellular Carcinoma	Metastatic (Liver)
[ Carcinoma TGLS = 2-7 ]			
[ Hepatocellular Carcinoma TGLS = 2-7 ]			
Skeletal Muscle		Carcinoma	Metastatic (Pancreas)
[ Carcinoma TGLS = 3-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 215

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 632

**DOSE:** 625 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 96-74870

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Thyroid Gland

Follicular Cel

Hyperplasia

Mild

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PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Pancreas Duct Carcinoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 216

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76774

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Capsule	Adenoma	
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 2-21 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 217

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76775

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex [ Hyperplasia TGLS = 3-21 ]	Capsule	Hyperplasia	Focal, Marked
* Kidney	Renal Tubule	Nephropathy Pigmentation Alveolar/Bronchiolar Adenoma	Mild Moderate
* Lung [ Alveolar/Bronchiolar Adenoma TGLS = 4-22 ]			
* Preputial Gland [ Infiltration Cellular TGLS = 1-8 ] [ Inflammation TGLS = 1-8 ]		Infiltration Cellular Inflammation	Lymphocyte, Moderate Chronic, Mild
* Seminal Vesicle [ Dilatation TGLS = 2-7 ]		Dilatation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 218

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76776

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[ Pigmentation TGLS = 5-5 ]			
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 3-6 ]			
* Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Moderate
* Seminal Vesicle		Dilatation	Moderate
Note: Seminal vesicle also shows moderate hemorrhage; hemorrhage is not an available diagnostic term for seminal vesicle in TDMS.			
[ Dilatation TGLS = 1-7, 2-7 ]			
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
[ Hyperplasia TGLS = 4-3 ]			
Tooth		Developmental Malformation	Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 052111-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 219

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76777

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 3-21, 4-21 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 220

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
Note: Hyperplasia of bone marrow is mainly of granulocytic type.			
* Epididymis		Hypertrophy	Moderate
Note: Portion of one epididymis is hypertrophied, partially due to dilatation of tubules in affected area. "Dilatation" is not available TDMS term for epididymis.			
* Kidney		Nephropathy	Marked
	Renal Tubule	Pigmentation	Marked
[ Pigmentation TGLS = 2-5 ]			
* Liver		Basophilic Focus	
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-5 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes			
Note: One testis is missing.			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 221

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Marked
	[ Pigmentation TGLS = 3-5 ]		
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Adenoma TGLS = 4-22, 22.1 ]		
	[ Hepatocellular Carcinoma TGLS = 1-21 ]		
* Seminal Vesicle		Dilatation	Mild
	[ Dilatation TGLS = 2-7 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 222

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Intestine Small, Jejunum [ Inflammation TGLS = 3-22 ]		Inflammation	Focal, Mild
* Kidney [ Pigmentation TGLS = 1-5 ]	Renal Tubule	Nephropathy Pigmentation	Moderate Marked
* Seminal Vesicle		Dilatation	Moderate
* Stomach, Glandular	Glands Epithelium	Degeneration Hyperplasia	Cystic, Focal, Minimal Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 223	<b>TRT#:</b> 7 <b>DOSE:</b> 625 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> 96-76781
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

Eye [ Atrophy TGLS = 7-26 ]		Atrophy	Marked
Harderian Gland [ Carcinoma TGLS = 6-25 ]		Carcinoma	
* Kidney	Renal Tubule	Nephropathy Pigmentation	Mild Mild
* Liver [ Hepatocellular Adenoma TGLS = 3-23 ] [ Hepatocellular Carcinoma TGLS = 2-22, 4-24 ]		Hepatocellular Adenoma Hepatocellular Carcinoma	Multiple
* Lymph Node, Mesenteric [ Hyperplasia TGLS = 5-5 ]		Hyperplasia	Histiocytic, Mild
Mesentery [ Hepatocellular Carcinoma TGLS = 1-21 ]		Hepatocellular Carcinoma	Metastatic (Liver)
* Seminal Vesicle		Dilatation	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 224

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 723

**DOSE:** 625 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 96-76782

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Renal Tubule	Nephropathy Pigmentation Angiectasis Hyperplasia	Mild Moderate Mild Lymphoid, Moderate
[ Hyperplasia TGLS = 5-5 ]			
* Preputial Gland		Degeneration	Cystic, Moderate
[ Degeneration TGLS = 1-8 ]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-21 ]			
* Spleen		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-22 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

**PRIMARY CAUSE OF DEATH**

- Spleen Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 225

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76783

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney	Renal Tubule	Nephropathy Pigmentation Degeneration	Minimal Moderate Cystic, Moderate
* Preputial Gland [ Degeneration TGLS = 1-8 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 226

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76784

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

\* Mammary Gland

OBSERVATIONS

Harderian Gland [ Adenoma TGLS = 9-21 ]		Adenoma	
* Intestine Small, Jejunum [ Inflammation TGLS = 10-22 ] [ Ulcer TGLS = 10-22 ]		Inflammation Ulcer	Focal, Moderate Moderate
* Kidney [ Dilatation TGLS = 5-5 ] [ Nephropathy TGLS = 3-5 ] [ Pigmentation TGLS = 4-5 ]	Pelvis  Renal Tubule	Dilatation Nephropathy Pigmentation	Moderate Moderate Marked
* Liver [ Hepatocellular Adenoma TGLS = 8-6 ]		Hepatocellular Adenoma	
* Lung [ Hemorrhage TGLS = 11-23 ]		Hemorrhage	Minimal
* Preputial Gland [ Degeneration TGLS = 1-8 ]		Degeneration	Cystic, Moderate
* Seminal Vesicle		Dilatation	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 226	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 730
	<b>DOSE:</b> 625 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-76784

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Dilatation TGLS = 7-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 227

TRT#: 7

SEX: Male

DAY ON TEST: 633

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 96-74871

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Mammary Gland	* Parathyroid Gland	* Spleen	* Thymus
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**OBSERVATIONS**

* Kidney		Metaplasia	Osseous, Focal, Minimal
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[ Nephropathy TGLS = 1-5 ]			
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 3-21 ]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 228

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Mild
	Capsule	Hemorrhage	Minimal
[ Hemorrhage TGLS = 2-10 ]			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	
	Hepatocyte	Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 4-6 ]		Vacuolization Cytoplasmic	Focal, Mild
[ Vacuolization Cytoplasmic TGLS = 3-6 ]			
* Seminal Vesicle		Dilatation	Mild
[ Dilatation TGLS = 1-7 ]			
* Stomach, Forestomach	Serosa	Hemorrhage	Mild
[ Hemorrhage TGLS = 5-21 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 229

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76786

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* 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

\* Mammary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Adenoma	
* Kidney	Pelvis	Dilatation	Mild
	Renal Tubule	Nephropathy	Moderate
		Pigmentation	Marked
	[ Dilatation TGLS = 5-5, 7-5 ]		
	[ Nephropathy TGLS = 3-5 ]		
	[ Pigmentation TGLS = 4-5 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 6-2 ]		
* Testes		Hypoplasia	Mild
	[ Hypoplasia TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 230	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 369
	<b>DOSE:</b> 625 PPM	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 95-73652

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Liver

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**OBSERVATIONS**

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 231

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76787

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Prostate		Hemorrhage	Mild
[ Hemorrhage TGLS = 1-7 ]			
* Seminal Vesicle		Dilatation	Moderate
[ Dilatation TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 232

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76788

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Hepatocellular Adenoma	Multiple
	Hepatocyte	Hepatocellular Carcinoma	
		Vacuolization Cytoplasmic	Focal, Mild
	[ Hepatocellular Adenoma TGLS = 5-22 ]		
	[ Hepatocellular Carcinoma TGLS = 1-21 ]		
	[ Vacuolization Cytoplasmic TGLS = 4-6 ]		
* Lymph Node, Mesenteric		Hemorrhage	Moderate
	[ Hemorrhage TGLS = 3-5 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 2-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 233

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77268

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea		

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

Harderian Gland [ Adenoma TGLS = 3-22 ]		Adenoma	
* Kidney [ Pigmentation TGLS = 2-5 ]	Renal Tubule	Pigmentation	Marked
* Nose	Nasolacrim Dct, Squam Epithel	Hyperplasia	Focal, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Urinary Bladder		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 234

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76789

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Gallbladder	* 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
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Mild
* Kidney		Congestion	Moderate
	Renal Tubule	Nephropathy	Minimal
	[ Congestion TGLS = 4-5 ]	Pigmentation	Mild
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 5-21 ]		
* Preputial Gland		Degeneration	Cystic, Moderate
	[ Degeneration TGLS = 1-8 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
	[ Hyperplasia TGLS = 6-22 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 235

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-76790

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Renal Tubule	Nephropathy Pigmentation	Minimal Mild
* Lung		Alveolar/Bronchiolar Adenoma Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2 ]		
* Lymph Node, Mesenteric		Hemorrhage	Moderate
	[ Hemorrhage TGLS = 3-5 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 236

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76791

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 2-21, 3-22 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 5-2 ]		
* Seminal Vesicle		Dilatation	Moderate
	[ Dilatation TGLS = 1-7 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Tooth		Developmental Malformation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 237

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 369

**DOSE:** 625 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73653

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**OBSERVATIONS**

\* Kidney

Nephropathy

Mild

Renal Tubule

Pigmentation

Mild

[ Pigmentation TGLS = 2-5 ]

\* Liver

Inflammation

Focal, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 238

TRT#: 7

SEX: Male

DAY ON TEST: 725

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 96-76792

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Preputial Gland	* Prostate	* Salivary Glands	* Skin
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Pituitary Gland
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OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
		Dilatation	Moderate
* Seminal Vesicle			
[ Dilatation TGLS = 1-7 ]			
* Spleen		Depletion Cellular	Mild
[ Depletion Cellular TGLS = 3-6 ]			
Urethra			

Note: Urethra has dark color grossly because of distention of corpus cavernosum of urethra with blood, which is a normal physiological event.

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 239

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-76793

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Kidney		Cyst	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 1-21 ]		
* Thyroid Gland		Degeneration	Cystic, Focal, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 240

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77269

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Marked
[ Pigmentation TGLS = 3-5 ]			
* Liver		Congestion	Focal, Mild
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-21 ]			
* Testes	Germinal Epith	Degeneration	Mild
[ Degeneration TGLS = 1-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Tooth		Developmental Malformation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 241	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 733
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-77270

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

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**OBSERVATIONS**

* Liver		Inflammation	Focal, Mild
* Ovary		Cyst	Marked
[ Cyst TGLS = 2-7 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

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PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 242

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77271

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Liver		Congestion	Focal, Mild
		Inflammation	Focal, Minimal
* Ovary		Cystadenoma	
* Thyroid Gland		Inflammation	Chronic, Focal, Minimal
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 243

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 699

HISTO: 96-76255

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Moderate
	Mediastinal	Sarcoma	Metastatic (Peritoneum)
* Mammary Gland		Hyperplasia	Moderate
Mesentery		Sarcoma	
* Pancreas		Lipomatosis	Mild
Peritoneum		Sarcoma	Metastatic (Mesentery)
Note: Sarcoma penetrates diaphragm and is on both serosal surfaces of diaphragm. [ Sarcoma TGLS = 2-21, 4-22, 5-23 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Pleura		Sarcoma	Metastatic (Mesentery)
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 244

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77272

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Gallbladder             |
| * 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 | * 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        |                            |                           |

OBSERVATIONS

- |                            |             |              |                  |
|----------------------------|-------------|--------------|------------------|
| * Kidney                   |             | Nephropathy  | Minimal          |
| * Liver                    |             | Inflammation | Focal, Minimal   |
| * Uterus                   | Endometrium | Hyperplasia  | Cystic, Moderate |
| [ Hyperplasia TGLS = 1-7 ] |             |              |                  |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 245

TRT#: 2

SEX: Female

DAY ON TEST: 721

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 96-77273

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Peritoneum	Mesothelium	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Stomach, Glandular	Glands	Degeneration	Cystic, Focal, Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tissue NOS	Pelvic	Fibrosarcoma	
[ Fibrosarcoma TGLS = 5-21 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

- Tissue NOS Pelvic Fibrosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 246

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77274

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Intestine Small, Jejunum		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 5-22 ]			
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 9-25 ]			
Lymph Node	Iliac	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-23 ]			
[ Lymphoma Malignant TGLS = 7-24 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-5 ]			
* Skin	Subcut Tiss	Edema	Moderate
	Subcut Tiss	Inflammation	Chronic, Focal, Moderate
[ Edema TGLS = 1-21 ]			
[ Inflammation TGLS = 1-21 ]			
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-6 ]			
* Thymus		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 8-2 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 246

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 734  
**HISTO:** 96-77274

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus  
[ Hyperplasia TGLS = 3-7 ]

Endometrium

Inflammation  
Hyperplasia

Chronic, Focal, Minimal  
Cystic, Moderate

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 247

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 734  
**HISTO:** 96-77275

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Gallbladder

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 2-21 ]			
* Ovary		Cyst	Moderate
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 248

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 734  
**HISTO:** 96-77276

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Ovary [ Angiectasis TGLS = 1-7 ]		Angiectasis	Moderate
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus [ Hyperplasia TGLS = 2-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 249

TRT#: 2

SEX: Female

DAY ON TEST: 541

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 96-74440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Lymph Node, Mesenteric		Ectasia	Mild
Skeletal Muscle		Rhabdomyosarcoma	
[ Rhabdomyosarcoma TGLS = 3-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Rhabdomyosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 250

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77277

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Gallbladder

**INSUFFICIENT TISSUE**

\* Pituitary Gland

**OBSERVATIONS**

* Lung	Alveolar Epith	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

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<b>ANIMAL ID:</b> 251	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 733
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-77278

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

---

**OBSERVATIONS**

* Ovary		Cyst	Marked
[ Cyst TGLS = 2-7 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

---

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 252

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 592

**DOSE:** 0 PPM

**DISP:** Natural Death

**HISTO:** 96-74655

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mandibular	* 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		

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

**OBSERVATIONS**

* Lung		Alveolar/Bronchiolar Adenoma	
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate

[ Hydrometra TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 253

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 96-77279

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 254

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77280

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* 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			

MISSING

\* Intestine Large, Rectum

OBSERVATIONS

* Intestine Small, Ileum [ Hyperplasia TGLS = 2-21 ]	Peyers Patch	Hyperplasia	Lymphoid, Moderate
* Liver [ Hepatocellular Adenoma TGLS = 3-22 ]		Hepatocellular Adenoma	
* Uterus [ Hyperplasia TGLS = 1-7 ]	Endometrium	Hydrometra Hyperplasia	Mild Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 255

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 681

HISTO: 96-75547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Pituitary Gland

INSUFFICIENT TISSUE

\* Ovary

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Clitoral Gland		Degeneration	Cystic, Moderate
		Inflammation	Chronic, Mild
	[ Degeneration TGLS = 1-8-1 ]		
	[ Inflammation TGLS = 1-8-1 ]		
* Kidney		Nephropathy	Minimal
Lymph Node	Bronchial	Lymphoma Malignant	
* Nose		Inflammation	Suppurative, Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thymus		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 3-21 ]		
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Mild
	[ Hydrometra TGLS = 2-7 ]		

PRIMARY CAUSE OF DEATH

- Thymus Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 256

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 96-77281

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Lymph Node, Mandibular Mesentery [ Hemangiosarcoma TGLS = 2-21 ]		Hyperplasia Hemangiosarcoma	Lymphoid, Moderate
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 257

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77282

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1-21 ]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Polyp Stromal	
[ Hyperplasia TGLS = 2-7 ]			
[ Polyp Stromal TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 258

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77283

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Ovary		Cyst	Mild
Note: Cyst is located parovarian. [ Cyst TGLS = 2-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 259      **TRT#:** 2      **SEX:** Female      **DAY ON TEST:** 733  
**DOSE:** 0    PPM      **DISP:** Terminal Sacrifice      **HISTO:** 96-77284

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Mammary Gland	* Nose	* Ovary
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

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

* Liver		Lymphoma Malignant	
* Lung		Hyperplasia	Lymphoid, Mild
Lymph Node	Mediastinal	Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 3-1 ]			
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-6 ]			
* Thymus		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 260

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Natural Death

DAY ON TEST: 645

HISTO: 96-75012

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Medulla [ Pheochromocytoma Malignant TGLS = 1-21 ]	Pheochromocytoma Malignant	
* Ovary	Cyst	Minimal
* Thymus [ Lymphoma Malignant TGLS = 2-22 ]	Lymphoma Malignant	
* Thyroid Gland	Degeneration	Cystic, Focal, Mild
* Uterus	Endometrium Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH - Thymus Lymphoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Malignant

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 261

TRT#: 2  
DOSE: 0 PPM

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 732  
HISTO: 96-77285

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hemorrhage	Focal, Mild
		Hepatocellular Adenoma	Multiple
		Hyperplasia	Histiocytic, Focal, Mild
	[ Hemorrhage TGLS = 2-6 ]		
	[ Hepatocellular Adenoma TGLS = 3-6 ]		
* Ovary		Angiectasis	Mild
		Cyst	Mild
	Note: One ovary is missing.		
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 262

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77286

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 4-21 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 3-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 263

TRT#: 2

SEX: Female

DAY ON TEST: 587

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 96-74639

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Mammary Gland		Myoepithelioma	
[ Myoepithelioma TGLS = 1-21 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-22 ]			
* Skin	Subcut Tiss	Fibrosarcoma	
[ Fibrosarcoma TGLS = 4-23 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

- Mammary Gland Myoepithelioma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:41  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 264

TRT#: 2  
DOSE: 0 PPM

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 732  
HISTO: 96-77287

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Inflammation	Focal, Minimal
Mesentery [ Necrosis TGLS = 4-21 ]	Fat	Necrosis	Moderate
* Ovary [ Thrombosis TGLS = 3-7 ]		Angiectasis Thrombosis	Moderate Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Uterus [ Hydrometra TGLS = 2-7 ] [ Hyperplasia TGLS = 1-7 ]	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 265

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77288

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Clitoral Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Ovary		Cyst	Moderate
[ Cyst TGLS = 2-7 ]			
* Pancreas	Duct	Cyst	Moderate
[ Cyst TGLS = 4-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 266

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77289

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* 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		

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver			
Note: TGL 2-6 = No correlating lesion			
* Spleen		Hyperplasia	Lymphoid, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 267

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Natural Death

DAY ON TEST: 643

HISTO: 96-74978

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                  |                        |                      |                   |
|------------------|------------------------|----------------------|-------------------|
| * Adrenal Cortex | * Adrenal Medulla      | * Bone               | * Brain           |
| * Clitoral Gland | * Esophagus            | * Gallbladder        | * Heart           |
| * Mammary Gland  | * Nose                 | * Parathyroid Gland  | * Pituitary Gland |
| * Skin           | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland   |
| * Trachea        |                        |                      |                   |

MISSING

- \* Spleen

AUTO PRECLUDES DIAG.

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone Marrow               | * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      |
| * Kidney                    | * Ovary                  | * Pancreas                 |                           |

OBSERVATIONS

- |                                    |             |                    |          |
|------------------------------------|-------------|--------------------|----------|
| * Liver                            |             | Lymphoma Malignant |          |
| * Lung                             | Mediastinum | Lymphoma Malignant |          |
|                                    |             | Lymphoma Malignant |          |
| [ Lymphoma Malignant TGLS = 6-2 ]  |             |                    |          |
| [ Lymphoma Malignant TGLS = 7-22 ] |             |                    |          |
| Lymph Node                         | Iliac       | Lymphoma Malignant |          |
|                                    | Inguinal    | Lymphoma Malignant |          |
|                                    | Mediastinal | Lymphoma Malignant |          |
| [ Lymphoma Malignant TGLS = 5-21 ] |             |                    |          |
| * Lymph Node, Mandibular           |             | Lymphoma Malignant |          |
| * Lymph Node, Mesenteric           |             | Lymphoma Malignant |          |
| [ Lymphoma Malignant TGLS = 4-5 ]  |             |                    |          |
| Mesentery                          |             | Lymphoma Malignant |          |
| * Salivary Glands                  |             | Lymphoma Malignant |          |
| * Thymus                           |             | Lymphoma Malignant |          |
| [ Lymphoma Malignant TGLS = 8-2 ]  |             |                    |          |
| * Urinary Bladder                  |             | Lymphoma Malignant |          |
| * Uterus                           |             | Hydrometra         | Moderate |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 267

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 643  
**HISTO:** 96-74978

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hydrometra TGLS = 2-7 ]	Endometrium	Hyperplasia	Cystic, Moderate
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**PRIMARY CAUSE OF DEATH** - Thymus Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 268

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77290

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 269

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77291

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 270

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 684

HISTO: 96-75548

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mesenteric	* Thymus
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Gallbladder		Leiomyosarcoma	Metastatic (Uterus)
* Kidney		Leiomyosarcoma	Metastatic (Uterus)
		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	Multiple
	Centrilobular	Leiomyosarcoma	Metastatic (Uterus)
	[ Hepatocellular Carcinoma TGLS = 9-24, 10-25 ]	Vacuolization Cytoplasmic	Moderate
	[ Leiomyosarcoma TGLS = 9-24 ]		
Lymph Node	Mediastinal	Leiomyosarcoma	Metastatic (Uterus)
	[ Leiomyosarcoma TGLS = 11-2 ]		
Mesentery		Leiomyosarcoma	Metastatic (Uterus)
	[ Leiomyosarcoma TGLS = 4-22, 6-5, 7-7 ]		
* Ovary		Leiomyosarcoma	Metastatic (Uterus)
Skeletal Muscle		Leiomyosarcoma	Metastatic (Uterus)
	[ Leiomyosarcoma TGLS = 8-23 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 1-6 ]		
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:41  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 270

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Moribund Sacrifice

**DAY ON TEST:** 684  
**HISTO:** 96-75548

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**ORGAN AND ACCOUNTABLE SITE STATUS**

Leiomyosarcoma

[ Leiomyosarcoma TGLS = 2-7, 3-21 ]

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**PRIMARY CAUSE OF DEATH**

- Uterus Leiomyosarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 271

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 96-77292

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 5-5 ]			
* Pancreas	Duct	Cyst	Mild
[ Cyst TGLS = 4-23 ]			
* Skin	Subcut Tiss	Fibrosis	Focal, Mild
Note: Fibrosis is near salivary glands.			
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-6 ]			
* Thymus		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-22 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
Tissue NOS	Thoracic	Rhabdomyosarcoma	
[ Rhabdomyosarcoma TGLS = 1-21 ]			
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 272

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732  
**HISTO:** 96-77293

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Moderate
Eye		Cataract	Moderate
[ Cataract TGLS = 1-21 ]			
Harderian Gland		Carcinoma	
[ Carcinoma TGLS = 5-23 ]			
* Liver		Hematopoietic Cell Proliferation	Mild
* Lung		Squamous Cell Carcinoma	Metastatic (Stomach, Forestomach)
Note: Metastatic lesion of squamous cell carcinoma in lung is very small.			
Mesentery		Squamous Cell Carcinoma	Metastatic (Stomach, Forestomach)
[ Squamous Cell Carcinoma TGLS = 4-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Lymphoid, Mild
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
[ Hyperplasia TGLS = 3-6 ]			
* Stomach, Forestomach		Squamous Cell Carcinoma	
[ Squamous Cell Carcinoma TGLS = 6-4 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 273

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77294

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mesenteric
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Liver
- \* Mammary Gland
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lung
- \* Nose
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Skin
- \* Thymus

OBSERVATIONS

\* Ovary  
 Note: One ovary is missing.  
 [ Cyst TGLS = 2-7 ]

Cyst

Mild

\* Uterus  
 [ Hyperplasia TGLS = 1-7 ]

Endometrium

Hyperplasia

Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 274

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 732  
**HISTO:** 96-77295

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mandibular	* 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		

**OBSERVATIONS**

* Lung	Alveolar Epith	Hyperplasia	Minimal
Mesentery [ Necrosis TGLS = 1-21 ]	Fat	Necrosis	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 275

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77296

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Lung		Alveolar/Bronchiolar Adenoma	
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 4-21 ]			
* Ovary		Cyst	Marked
[ Cyst TGLS = 3-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 276

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 734  
**HISTO:** 96-77297

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Intestine Small, Jejunum [ Hyperplasia TGLS = 2-21 ]	Peyers Patch	Hyperplasia	Lymphoid, Marked
* Uterus [ Hyperplasia TGLS = 1-22 ]	Cervix Endometrium	Hyperplasia Hyperplasia	Mild Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 277

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77298

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Ovary		Cyst	Moderate
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Adenoma	
		Degeneration	Cystic, Focal, Minimal
	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 278

TRT#: 2

SEX: Female

DAY ON TEST: 484

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 96-73994

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Gallbladder	* 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, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	* Skin	Spinal Cord	* Spleen
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Brain		Atrophy	Focal, Moderate
[ Atrophy TGLS = 2-1 ]			
* Liver	Hepatocyte, Periportal	Atrophy	Mild
	Hepatocyte, Periportal	Vacuolization Cytoplasmic	Moderate
* Mammary Gland		Ectasia	Moderate
[ Ectasia TGLS = 3-8 ]		Hyperplasia	Moderate
[ Hyperplasia TGLS = 3-8 ]			
* Pituitary Gland	Pars Intermed	Carcinoma	
[ Carcinoma TGLS = 1-1 ]			
* Stomach, Glandular	Epithelium	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Intermed Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 279

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77299

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Intestine Small, Ileum [ Lymphoma Malignant TGLS = 9-4 ]		Lymphoma Malignant	
* Liver [ Hepatocellular Adenoma TGLS = 6-23 ]		Hepatocellular Adenoma	
Lymph Node [ Hyperplasia TGLS = 7-25 ]	Bronchial	Hyperplasia	Mild
* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 5-22 ]		Lymphoma Malignant	
* Pituitary Gland		Angiectasis	Minimal
* Skin [ Carcinoma TGLS = 8-24 ]	Sebaceous GI	Carcinoma	
* Spleen [ Lymphoma Malignant TGLS = 4-21 ]		Lymphoma Malignant	
* Uterus [ Hyperplasia TGLS = 3-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 280

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Natural Death

**DAY ON TEST:** 608  
**HISTO:** 96-74795

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**AUTO PRECLUDES DIAG.**

\* Spleen

**OBSERVATIONS**

* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
* Liver		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLS = 4-6, 5-6 ]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 7-2 ]		
Mesentery		Histiocytic Sarcoma	
* Ovary		Cyst	Marked
	[ Cyst TGLS = 3-7 ]		
* Uterus		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLS = 2-21 ]		

**PRIMARY CAUSE OF DEATH**

- Uterus Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 281

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77300

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Parathyroid Gland

OBSERVATIONS

Mesentery	Fat	Necrosis	Minimal
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 282

TRT#: 2  
DOSE: 0 PPM

SEX: Female  
DISP: Natural Death

DAY ON TEST: 606  
HISTO: 96-74796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Skin	* Thyroid Gland	* Trachea	

AUTO PRECLUDES DIAG.

* Bone Marrow	* Intestine Small, Jejunum	* Ovary
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OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant
* Gallbladder		Lymphoma Malignant
* Kidney		Lymphoma Malignant
* Liver		Lymphoma Malignant
[ Lymphoma Malignant TGLS = 10-6 ]		
* Lung	Mediastinum	Lymphoma Malignant
[ Lymphoma Malignant TGLS = 15-26 ]		Lymphoma Malignant
Lymph Node	Axillary	Lymphoma Malignant
	Iliac	Lymphoma Malignant
	Inguinal	Lymphoma Malignant
	Renal	Lymphoma Malignant
[ Lymphoma Malignant TGLS = 1-8, 1-21 ]		
[ Lymphoma Malignant TGLS = 13-25 ]		
[ Lymphoma Malignant TGLS = 12-24 ]		
* Lymph Node, Mandibular		Lymphoma Malignant
[ Lymphoma Malignant TGLS = 2-8 ]		
* Lymph Node, Mesenteric		Lymphoma Malignant
[ Lymphoma Malignant TGLS = 11-5 ]		
Mesentery		Lymphoma Malignant
[ Lymphoma Malignant TGLS = 8-23 ]		

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 282	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 606
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Natural Death	<b>HISTO:</b> 96-74796

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Pancreas		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 9-6 ]			
* Stomach, Forestomach		Lymphoma Malignant	
* Stomach, Glandular		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 14-26 ]			
* Urinary Bladder		Lymphoma Malignant	
* Uterus		Hydrometra	Moderate
	Endometrium	Lymphoma Malignant	
		Polyp Stromal	
[ Hydrometra TGLS = 6-7 ]			
[ Lymphoma Malignant TGLS = 7-27 ]			
[ Polyp Stromal TGLS = 7-27 ]			

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**PRIMARY CAUSE OF DEATH** - Thymus Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 283

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77301

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* 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		

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
	[ Alveolar/Bronchiolar Adenoma TGLS = 2-21 ]		
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hydrometra TGLS = 1-7 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 284

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 734  
**HISTO:** 96-77302

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Ovary	* Parathyroid Gland	* Pituitary Gland	
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 4-21 ]			
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 2-7 ]			
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 285

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 734  
**HISTO:** 96-77303

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**MISSING**

\* Ovary

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
[ Mixed Cell Focus TGLS = 3-21 ]			
* Pancreas	Duct	Cyst	Moderate
[ Cyst TGLS = 2-7 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 286

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 370  
**HISTO:** 95-73654

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**OBSERVATIONS**

\* Kidney  
\* Liver

Nephropathy  
Inflammation

Minimal  
Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 287

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 370  
**HISTO:** 95-73655

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Kidney

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**OBSERVATIONS**

\* Kidney

Note: Gross photograph (color slide) taken at necropsy of cut surface of left kidney, with similar kidney specimen from mouse FF444 shown in same photograph.

\* Liver

Basophilic Focus

Inflammation

Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 288

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 370  
**HISTO:** 95-73656

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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
Note: Gross photograph (color slide) taken at necropsy of cut surface of left kidney, with similar kidney specimen from mouse FF445 shown in same photograph.		
* Liver	Basophilic Focus Inflammation	Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 289

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 370  
**HISTO:** 95-73657

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

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**OBSERVATIONS**

\* Liver

Hepatocellular Adenoma  
Inflammation

Focal, Minimal

[ Hepatocellular Adenoma TGLS = 1-21 ]

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 290

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 370  
**HISTO:** 95-73658

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

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**OBSERVATIONS**

\* Liver

Inflammation

Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 291

TRT#: 2

SEX: Female

DAY ON TEST: 548

DOSE: 0 PPM

DISP: Natural Death

HISTO: 96-74474

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Colon	* Kidney	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
* Urinary Bladder			

OBSERVATIONS

* Lung	Alveolar/Bronchiolar Carcinoma	Multiple
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[ Alveolar/Bronchiolar Carcinoma TGLS = 2-2, 3-2 ]

PRIMARY CAUSE OF DEATH

- Lung Alveolar/Bronchiolar Carcinoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 292

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 96-77304

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Bone		Hyperostosis	Moderate
[ Hyperostosis TGLS = 5-21 ]			
* Intestine Small, Duodenum		Inflammation	Chronic, Focal, Mild
		Necrosis	Focal, Minimal
* Liver	Hepatocyte	Fatty Change	Diffuse, Moderate
* Ovary		Cyst	Moderate
[ Cyst TGLS = 3-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 293

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77305

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 3-22 ]			
* Lung		Alveolar/Bronchiolar Carcinoma	
[ Alveolar/Bronchiolar Carcinoma TGLS = 4-2 ]			
Mesentery	Fat	Necrosis	Minimal
[ Necrosis TGLS = 2-21 ]			
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 1-6 ]		Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 1-6 ]			
* Stomach, Forestomach		Squamous Cell Papilloma	
[ Squamous Cell Papilloma TGLS = 7-23 ]			
* Thymus		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 6-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 294

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77306

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

INSUFFICIENT TISSUE

\* Parathyroid Gland

OBSERVATIONS

* Kidney		Atrophy Nephropathy	Focal, Marked Marked
Note: Nephropathy is focal in both kidneys.			
[ Atrophy TGLS = 5-5 ]			
[ Nephropathy TGLS = 5-5 ]			
* Liver		Hepatocellular Carcinoma Inflammation	Focal, Minimal
[ Hepatocellular Carcinoma TGLS = 6-23 ]			
* Skin	Subcut Tiss	Fibrosarcoma Squamous Cell Papilloma	
[ Fibrosarcoma TGLS = 1-21 ]			
[ Squamous Cell Papilloma TGLS = 3-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 294

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 733  
**HISTO:** 96-77306

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 295

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 96-77307

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* 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	

INSUFFICIENT TISSUE

\* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
* Ovary		Cyst	Mild
* Spleen		Hyperplasia	Lymphoid, Moderate
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 2-7 ]			
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 296

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 370  
**HISTO:** 95-73659

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

---

**OBSERVATIONS**

\* Liver

Inflammation

Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 297

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 370  
**HISTO:** 95-73660

---

**OBSERVATIONS**

\* Kidney  
\* Liver

Nephropathy  
Inflammation

Minimal  
Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin

**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 03:18:42

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

**Lab:** SRI

---

**ANIMAL ID:** 298

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 370

**DOSE:** 0 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73661

---

**OBSERVATIONS**

\* Kidney

Nephropathy

Minimal

\* Liver

Inflammation

Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin

**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 03:18:42

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

**Lab:** SRI

---

**ANIMAL ID:** 299

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 370

**DOSE:** 0 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73662

---

**OBSERVATIONS**

\* Kidney

Cyst

Minimal

\* Liver

Inflammation

Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 300

**TRT#:** 2  
**DOSE:** 0 PPM

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 370  
**HISTO:** 95-73663

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

---

**OBSERVATIONS**

\* Liver

Inflammation

Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 301

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77308

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* 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	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 302

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77309

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Kidney		Metaplasia	Osseous, Focal, Mild
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
		Hepatocellular Adenoma	
* Liver			
[ Hepatocellular Adenoma TGLS = 4-6 ]			
Mesentery		Angiectasis	Moderate
	Fat	Necrosis	Moderate
[ Angiectasis TGLS = 2-21 ]			
[ Necrosis TGLS = 3-22 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77310

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

\* Ovary

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mandibular			
[ Hyperplasia TGLS = 3-5 ]			
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 2-7 ]			
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 304

TRT#: 4

SEX: Female

DAY ON TEST: 490

DOSE: 312 PPM

DISP: Natural Death

HISTO: 96-74006

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

MISSING

\* Thymus

AUTO PRECLUDES DIAG.

\* Intestine Small, Jejunum

OBSERVATIONS

* Bone Marrow		Histiocytic Sarcoma	
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
	Pelvis	Dilatation	Moderate
		Nephropathy	Moderate
Note: No pigment related to test article was observed in kidney. [ Dilatation TGLS = 7-5 ]			
* Liver		Histiocytic Sarcoma	
		[ Histiocytic Sarcoma TGLS = 2-6 ]	
* Lung		Histiocytic Sarcoma	
* Lymph Node, Mandibular		Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
Mesentery		Histiocytic Sarcoma	
* Nose		Histiocytic Sarcoma	
* Ovary		Histiocytic Sarcoma	
		[ Histiocytic Sarcoma TGLS = 5-7 ]	
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Histiocytic Sarcoma	
		[ Hematopoietic Cell Proliferation TGLS = 1-6 ]	
		[ Histiocytic Sarcoma TGLS = 1-6 ]	

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 304

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 490

**DOSE:** 312 PPM

**DISP:** Natural Death

**HISTO:** 96-74006

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Urinary Bladder

Histiocytic Sarcoma

\* Uterus

Histiocytic Sarcoma

[ Histiocytic Sarcoma TGLS = 4-22 ]

Vagina

Histiocytic Sarcoma

[ Histiocytic Sarcoma TGLS = 3-21 ]

---

PRIMARY CAUSE OF DEATH

- Uterus Histiocytic Sarcoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Histiocytic Sarcoma

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77311

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Kidney	Renal Tubule	Nephropathy Pigmentation	Minimal Minimal
* Liver		Inflammation	Focal, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 2-6 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 306

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 370

**DOSE:** 312 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73664

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

---

**OBSERVATIONS**

\* Liver

Inflammation

Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 307

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 370

**DOSE:** 312 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73665

---

**OBSERVATIONS**

\* Kidney

Nephropathy

Minimal

\* Liver

Inflammation

Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 308

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 370

**DOSE:** 312 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73666

---

**OBSERVATIONS**

\* Kidney

Nephropathy

Minimal

\* Liver

Hepatocellular Carcinoma

Inflammation

Focal, Minimal

[ Hepatocellular Carcinoma TGLS = 2-21 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 309

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 370

**DOSE:** 312 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73667

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

---

**OBSERVATIONS**

\* Liver

Inflammation

Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 310

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 370

**DOSE:** 312 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73668

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

---

**OBSERVATIONS**

\* Liver

Inflammation

Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 311	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 734
	<b>DOSE:</b> 312 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-77312

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

---

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Ovary		Cyst	Moderate
[ Cyst TGLS = 1-7 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 312	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 707
	<b>DOSE:</b> 312 PPM	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 96-76256

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Gallbladder	Epithelium	Hyperplasia Inflammation	Moderate Chronic, Moderate
* Intestine Small, Duodenum [ Ectasia TGLS = 6-4 ]		Ectasia	Moderate
* Intestine Small, Jejunum [ Edema TGLS = 7-4-1 ]		Edema	Moderate
* Kidney [ Congestion TGLS = 3-5 ]	Renal Tubule	Congestion Nephropathy Pigmentation	Mild Mild Minimal
* Liver [ Atrophy TGLS = 4-6 ] [ Necrosis TGLS = 4-6 ]	Hepatocyte, Periportal Hepatocyte, Periportal Hepatocyte, Periportal	Atrophy Necrosis Regeneration	Moderate Moderate Moderate
* Lymph Node, Mesenteric [ Hyperplasia TGLS = 5-5 ]		Hyperplasia	Lymphoid, Moderate
Mesentery [ Necrosis TGLS = 1-7 ]	Fat	Necrosis	Mild
* Spleen [ Hyperplasia TGLS = 2-6 ]		Hyperplasia	Lymphoid, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 312

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 707

**DOSE:** 312 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 96-76256

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Uterus

Atrophy

Moderate

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PRIMARY CAUSE OF DEATH

- Liver Hepatocyte Periportal Necrosis

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 313

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77313

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 3-21 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 2-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 314

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 633

**DOSE:** 312 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 96-74872

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Pituitary Gland	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Moderate
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet Histiocytic Sarcoma	Marked

Note: No nephropathy and no pigment related to test article observed in kidney.  
 [ Accumulation, Hyaline Droplet TGLS = 8-5 ]

* Liver		Histiocytic Sarcoma	
* Lung		Histiocytic Sarcoma	
Lymph Node	Axillary	Histiocytic Sarcoma	
	Bronchial	Histiocytic Sarcoma	
	Deep Cervical	Histiocytic Sarcoma	
	Iliac	Histiocytic Sarcoma	
	Inguinal	Histiocytic Sarcoma	
	Mediastinal	Histiocytic Sarcoma	
	Pancreatic	Histiocytic Sarcoma	
	Popliteal	Histiocytic Sarcoma	
		Histiocytic Sarcoma	

Note: Tissue is axillary lymph node; term not available  
 Note: Histiocytic sarcoma is present in axillary lymph node, and is TGL #2-22.  
 [ Histiocytic Sarcoma TGLS = 14-25 ]  
 [ Histiocytic Sarcoma TGLS = 10-27 ]  
 [ Histiocytic Sarcoma TGLS = 4-23 ]  
 [ Histiocytic Sarcoma TGLS = 6-7 ]

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 314

TRT#: 4

SEX: Female

DAY ON TEST: 633

DOSE: 312 PPM

DISP: Moribund Sacrifice

HISTO: 96-74872

ORGAN AND ACCOUNTABLE SITE STATUS

[ Histiocytic Sarcoma TGLS = 1-21 ]		
[ Histiocytic Sarcoma TGLS = 13-24 ]		
[ Histiocytic Sarcoma TGLS = 9-26 ]		
* Lymph Node, Mandibular	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 3-8 ]		
* Lymph Node, Mesenteric	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 7-5 ]		
Mesentery	Histiocytic Sarcoma	
* Ovary	Histiocytic Sarcoma	
* Parathyroid Gland	Cyst	Mild
* Salivary Glands	Histiocytic Sarcoma	
* Spleen	Hematopoietic Cell Proliferation	Moderate
	Histiocytic Sarcoma	
[ Hematopoietic Cell Proliferation TGLS = 5-6 ]		
[ Histiocytic Sarcoma TGLS = 5-6 ]		
* Thymus	Histiocytic Sarcoma	
* Uterus	Histiocytic Sarcoma	
	Endometrium	
[ Polyp Stromal TGLS = 12-7 ]	Polyp Stromal	

PRIMARY CAUSE OF DEATH - Lung Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 315

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77314

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adren Medulla			
Note: One adrenal gland is missing.			
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-21 ]			
* Lung		Hyperplasia	Lymphoid, Moderate
* Ovary			
Note: One ovary is missing.			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 316

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77315

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 3-2 ]			
* Ovary		Cyst	Moderate
[ Cyst TGLS = 1-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 4-1 ]			
* Spleen		Angiectasis	Minimal
		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 317

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77316

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Ovary

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	

[ Hydrometra TGLS = 1-7 ]  
 [ Hyperplasia TGLS = 3-7 ]  
 [ Polyp Stromal TGLS = 2-7 ]

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

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<b>ANIMAL ID:</b> 318	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 734
	<b>DOSE:</b> 312 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-77317

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	Multiple
	[ Hepatocellular Carcinoma TGLS = 1-21, 2-22 ]		
* Ovary		Cyst	Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
	[ Adenoma TGLS = 3-3 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 319

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77318

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Schwannoma Malignant	Metastatic (Tissue Nos)
Lymph Node	Iliac	Hyperplasia	Moderate
	Renal	Hyperplasia	Moderate
			[ Hyperplasia TGLS = 6-23 ]
			[ Hyperplasia TGLS = 5-22 ]
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked
			[ Hematopoietic Cell Proliferation TGLS = 3-6 ]
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
Tissue NOS	Abdominal	Schwannoma Malignant	
			[ Schwannoma Malignant TGLS = 4-21 ]
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
			[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 320

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 312 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77319

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Kidney		Metaplasia Nephropathy	Osseous, Focal, Minimal Minimal
Note: No pigment observed in kidney.			
* Ovary			
Note: One ovary is missing.			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 321	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 734
	<b>DOSE:</b> 312 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-77320

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* 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			

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**OBSERVATIONS**

* Adrenal Cortex		Adenoma	
* Kidney		Nephropathy	Minimal
Note: No pigment observed in kidney.			
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 322

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

\* Pituitary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-6 ]			
Lymph Node	Mediastinal	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 5-23 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 3-22 ]			
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-21 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 323	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 720
	<b>DOSE:</b> 312 PPM	<b>DISP:</b> Natural Death	<b>HISTO:</b> 96-77322

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Skin
* Thyroid Gland	* Trachea		

**MISSING**

\* Pituitary Gland

**AUTO PRECLUDES DIAG.**

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric
* Pancreas	* Spleen	* Stomach, Forestomach	* Stomach, Glandular

**OBSERVATIONS**

* Heart	Epicardium	Lymphoma Malignant	
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	
		Lymphoma Malignant	
	[ Hepatocellular Adenoma TGLS = 7-22 ]		
* Lung	Mediastinum	Lymphoma Malignant	
	Serosa	Lymphoma Malignant	
		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 4-21 ]		
Lymph Node	Mediastinal	Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 5-23 ]		
* Lymph Node, Mandibular		Lymphoma Malignant	
Mesentery		Lymphoma Malignant	
* Ovary		Cyst	Moderate
	[ Cyst TGLS = 3-7 ]		
* Salivary Glands		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Urinary Bladder		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 323	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 720
	<b>DOSE:</b> 312 PPM	<b>DISP:</b> Natural Death	<b>HISTO:</b> 96-77322

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Uterus [ Hyperplasia TGLS = 2-7 ]	Endometrium	Hyperplasia	Cystic, Moderate
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PRIMARY CAUSE OF DEATH - Liver Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 324

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77323

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* 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

OBSERVATIONS

* Uterus [ Hyperplasia TGLS = 1-7 ]	Endometrium	Hyperplasia	Cystic, Moderate
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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 325

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77324

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus	Endometrium	Hydrometra	Moderate
		Hyperplasia	Cystic, Moderate

[ Hydrometra TGLS = 2-7 ]

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 326

TRT#: 4

SEX: Female

DAY ON TEST: 659

DOSE: 312 PPM

DISP: Moribund Sacrifice

HISTO: 96-75029

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* 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	Peripheral Nerve	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

\* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant	
* Gallbladder		Lymphoma Malignant	
* Heart		Lymphoma Malignant	
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver	Hepatocyte	Fatty Change	Diffuse, Mild
		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 5-6 ]		
* Lung	Mediastinum	Lymphoma Malignant	
		Lymphoma Malignant	
Lymph Node	Mediastinal	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 7-3-1 ]		
	[ Lymphoma Malignant TGLS = 4-7 ]		
* Lymph Node, Mandibular		Lymphoma Malignant	
Mesentery		Lymphoma Malignant	
* Ovary		Lymphoma Malignant	
Oviduct		Lymphoma Malignant	
* Pancreas	Duct	Cyst	Moderate
		Lipomatosis	Marked
* Salivary Glands		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 326	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 659
	<b>DOSE:</b> 312 PPM	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 96-75029

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Skin	Subcut Tiss	Hyperplasia	Mast Cell, Focal, Mild
Note: Mast cell hyperplasia is located in head, on slide #9.			
* Spleen		Hematopoietic Cell Proliferation Lymphoma Malignant	Moderate
[ Lymphoma Malignant TGLS = 2-6, 3-21 ]			
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia Lymphoma Malignant	Cystic, Mild

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**PRIMARY CAUSE OF DEATH** - Liver Hepatocyte Fatty Change

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 327

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77325

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Ovary

OBSERVATIONS

Blood Vessel	Media, Pulmn Artery	Hyperplasia	Minimal
* Intestine Small, Jejunum		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-22 ]			
* Kidney	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 2-21 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Pancreas	Acinus	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 328

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 552

**DOSE:** 312 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 96-74475

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* 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		

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver	Hepatocyte	Fatty Change	Diffuse, Moderate
	[ Fatty Change TGSL = 4-6 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 329

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77326

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* 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			

OBSERVATIONS

Harderian Gland		Adenoma	
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 3-21 ]		
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hydrometra TGLS = 2-7 ]		
	[ Hyperplasia TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 330

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77327

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 8-24 ]		Lymphoma Malignant	
* Kidney	Renal Tubule	Nephropathy Pigmentation	Minimal Minimal
* Liver		Clear Cell Focus Hepatocellular Adenoma Lymphoma Malignant	
Note: No liver lesion on slide 22. [ Clear Cell Focus TGLS = 4-6 ] [ Hepatocellular Adenoma TGLS = 6-6 ] [ Lymphoma Malignant TGLS = 5-6, 7-23 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 3-21 ]			
* Ovary		Cystadenoma	
[ Cystadenoma TGLS = 2-7 ]			
Tissue NOS	Thoracic	Rhabdomyosarcoma	
Note: Rhabdomyosarcoma is located in axillary region, subcutaneously. [ Rhabdomyosarcoma TGLS = 9-25 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 331

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77328

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Lung  
\* Nose  
\* Salivary Glands  
\* Thymus

\* Adrenal Medulla  
\* Clitoral Gland  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lymph Node, Mandibular  
\* Ovary  
\* Skin  
\* Thyroid Gland

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Stomach, Forestomach  
\* Trachea

\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Liver  
\* Mammary Gland  
\* Parathyroid Gland  
\* Stomach, Glandular  
\* Urinary Bladder

MISSING

\* Pituitary Gland

OBSERVATIONS

\* Intestine Small, Jejunum  
\* Kidney  
  
\* Spleen  
\* Uterus

Peyers Patch  
  
Renal Tubule  
  
  
Endometrium

Hyperplasia  
Nephropathy  
Pigmentation  
Hematopoietic Cell Proliferation  
Hydrometra  
Hyperplasia

Lymphoid, Mild  
Minimal  
Minimal  
Moderate  
Moderate  
Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 332	<b>TRT#:</b> 4 <b>DOSE:</b> 312 PPM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 733 <b>HISTO:</b> 96-77329
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Angiectasis	Moderate
		Cyst	Moderate
	[ Angiectasis TGLS = 1-6 ]		
	[ Cyst TGLS = 2-21 ]		
* Parathyroid Gland		Cyst	Mild
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 3-7 ]		

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 333

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Lymphoma Malignant	
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	
		Lymphoma Malignant	
	[ Hepatocellular Adenoma TGLS = 5-22 ]		
	[ Lymphoma Malignant TGLS = 5-22, 6-23 ]		
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 7-5 ]		
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLS = 3-21 ]		
* Ovary		Cyst	Moderate
	[ Cyst TGLS = 1-7 ]		
* Spleen		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 4-6 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 2-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 334

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 312 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77331

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* 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		

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 2-6 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 1-7 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 335

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 461

**DOSE:** 312 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 95-73915

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**INSUFFICIENT TISSUE**

\* Pituitary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild

**PRIMARY CAUSE OF DEATH**

- Kidney Nephropathy

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 336

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77332

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

Blood Vessel	Media, Pulmn Artery	Hyperplasia	Moderate
* Kidney	Renal Tubule	Nephropathy Pigmentation	Minimal Minimal
* Liver	[ Hepatocellular Carcinoma TGLS = 3-22 ]	Hepatocellular Carcinoma	
* Lymph Node, Mesenteric	[ Angiectasis TGLS = 2-21 ]	Angiectasis	Marked
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

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<b>ANIMAL ID:</b> 337	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 734
	<b>DOSE:</b> 312 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-77333

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	

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**MISSING**

\* Ovary

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**OBSERVATIONS**

* Kidney	Renal Tubule	Pigmentation	Minimal
* Skin	Subcut Tiss	Hemangiosarcoma	
	Subcut Tiss	Inflammation	Chronic, Focal, Moderate
	[ Hemangiosarcoma TGLS = 1-21 ]		
	[ Inflammation TGLS = 1-21 ]		
* Stomach, Glandular	Glands	Degeneration	Cystic, Focal, Minimal
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 338

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 312 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77334

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**INSUFFICIENT TISSUE**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver		Inflammation	Focal, Minimal
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate

[ Hydrometra TGLS = 1-7 ]  
[ Hyperplasia TGLS = 2-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 339

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Ovary

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Fibrosis	Focal, Moderate
		Mineralization	Focal, Moderate
	[ Fibrosis TGLS = 4-21 ]		
	[ Mineralization TGLS = 4-21 ]		
* Pancreas		Lipomatosis	Moderate
* Spleen		Hyperplasia	Lymphoid, Moderate
	[ Hyperplasia TGLS = 3-6 ]		
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hydrometra TGLS = 2-7 ]		
	[ Hyperplasia TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 340

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77336

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* 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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
Lymph Node	Iliac	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-21 ]			
[ Lymphoma Malignant TGLS = 5-22 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-5 ]			
* Ovary		Cyst	Marked
[ Cyst TGLS = 2-7 ]			
* Spleen		Lymphoma Malignant	
* Stomach, Glandular	Glands	Degeneration	Cystic, Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 341

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 370

**DOSE:** 312 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73669

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Liver

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**OBSERVATIONS**

\* Kidney

Nephropathy

Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 342

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 370

**DOSE:** 312 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73670

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

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**OBSERVATIONS**

\* Liver

Inflammation

Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 343

**TRT#:** 4  
**DOSE:** 312 PPM

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 370  
**HISTO:** 95-73671

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**OBSERVATIONS**

* Kidney	Renal Tubule	Dilatation	Minimal
		Nephropathy	Minimal
* Liver		Inflammation	Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 344	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 370
	<b>DOSE:</b> 312 PPM	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 95-73672

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

---

**OBSERVATIONS**

\* Liver

Inflammation

Focal, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 345

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 370

**DOSE:** 312 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73673

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

\* Liver

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 346	<b>TRT#:</b> 4 <b>DOSE:</b> 312 PPM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 732 <b>HISTO:</b> 96-77337
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

* Kidney		Lymphoma Malignant Nephropathy Pigmentation	Minimal Minimal
* Liver	Renal Tubule Hepatocyte	Fatty Change Lymphoma Malignant	Diffuse, Moderate
[ Lymphoma Malignant TGLS = 4-6 ]			
* Lung	Mediastinum	Lymphoma Malignant Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric Mesentery		Lymphoma Malignant Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-7 ]			
* Ovary		Cyst	Moderate
* Pancreas		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Adenoma	
[ Adenoma TGLS = 5-1 ]			
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-6 ]			
* Thymus		Lymphoma Malignant	
* Urinary Bladder		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 346

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 312 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77337

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hydrometra TGLS = 2-7 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 347

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77338

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Angiectasis	Moderate
		Depletion Cellular	Moderate
		Lymphoma Malignant	
		Adenoma	
Harderian Gland			
[ Adenoma TGLS = 10-23 ]			
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Lymphoma Malignant	
* Lung	Mediastinum	Lymphoma Malignant	
Lymph Node	Iliac	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 6-22 ]			
[ Lymphoma Malignant TGLS = 9-2 ]			
[ Lymphoma Malignant TGLS = 5-21 ]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-8 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-5 ]			
Mesentery		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin

**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 03:18:42

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

**Lab:** SRI

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**ANIMAL ID:** 347

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 312 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77338

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Lymphoma Malignant TGLS = 2-6 ]

\* Thymus

Lymphoma Malignant

[ Lymphoma Malignant TGLS = 8-2 ]

\* Thyroid Gland

Follicular Cel

Hyperplasia

Mild

\* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

---

[ Hyperplasia TGLS = 3-7 ]

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 348

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77339

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Marked
[ Hyperplasia TGLS = 2-3 ]			
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 349

TRT#: 4

SEX: Female

DAY ON TEST: 681

DOSE: 312 PPM

DISP: Moribund Sacrifice

HISTO: 96-75549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney Note: No pigment related to test article observed in kidneys.		Nephropathy	Minimal
* Liver		Necrosis	Focal, Mild
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Ovary [ Cystadenoma TGLS = 2-7 ]		Cystadenoma	
* Uterus [ Hyperplasia TGLS = 1-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 350

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77340

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 3-22, 4-23 ]		
Mesentery	Fat	Necrosis	Mild
	[ Necrosis TGLS = 2-21 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hydrometra TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 351

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77341

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* 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			

MISSING

\* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 052111-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 352

TRT#: 4

SEX: Female

DAY ON TEST: 527

DOSE: 312 PPM

DISP: Moribund Sacrifice

HISTO: 96-74441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney Note: No pigment related to test article observed in kidney.	Nephropathy	Minimal
* Skin [ Inflammation TGLS = 1-21 ]	Inflammation	Chronic, Focal, Mild
* Spleen	Hematopoietic Cell Proliferation	Moderate
* Uterus [ Hydrometra TGLS = 2-7 ]	Hydrometra	Moderate
Zymbal's Gland [ Carcinoma TGLS = 3-22 ]	Carcinoma	

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 353

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77342

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Clitoral Gland	* Parathyroid Gland
------------------	---------------------

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 1-21 ]		
Mesentery	Fat	Necrosis	Minimal
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	[ Cyst TGLS = 2-1 ]		
* Stomach, Glandular	Glands	Degeneration	Cystic, Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	[ Hyperplasia TGLS = 3-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 354

TRT#: 4

SEX: Female

DAY ON TEST: 391

DOSE: 312 PPM

DISP: Moribund Sacrifice

HISTO: 95-73726

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	Ear	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	Peripheral Nerve
* Pituitary Gland	* Salivary Glands	* Skin	Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

Blood Vessel		Inflammation	Chronic, Moderate
Note: Inflammation affects arteries of meninges, pit gland, mesentery, saliv gland, kidney, urin bladder, head, and subcut tissue.			
* Brain		Demyelination	Focal, Mild
		Gliosis	Focal, Mild
		Hemorrhage	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Focal, Mild
		Pigmentation	Focal, Mild
* Parathyroid Gland		Cyst	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

- Brain Demyelination

CONTRIBUTORY CAUSE OF DEATH

- Brain Gliosis;Brain Hemorrhage

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 355

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77343

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Trachea

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Urinary Bladder

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular

- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thymus

OBSERVATIONS

- |                            |                |              |                  |
|----------------------------|----------------|--------------|------------------|
| * Kidney                   |                | Nephropathy  | Minimal          |
|                            | Renal Tubule   | Pigmentation | Minimal          |
| * Thyroid Gland            | Follicular Cel | Adenoma      |                  |
| * Uterus                   | Endometrium    | Hyperplasia  | Cystic, Moderate |
| [ Hyperplasia TGLS = 1-7 ] |                |              |                  |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 356

TRT#: 4

SEX: Female

DAY ON TEST: 727

DOSE: 312 PPM

DISP: Moribund Sacrifice

HISTO: 77344

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Esophagus
* Gallbladder	* 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	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Clitoral Gland	* Lymph Node, Mandibular	* Ovary
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone		Osteoporosis	Moderate
* Heart		Rhabdomyosarcoma	
[ Rhabdomyosarcoma TGLS = 10-5 ]			
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet Nephropathy	Marked Moderate
Note: No pigment observed in renal tubules.			
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 6-23 ]			
* Lung		Alveolar/Bronchiolar Carcinoma Rhabdomyosarcoma	Metastatic (Heart)
Note: Lesions of rhabdomyosarcoma in lung are multiple, and mostly of size too small to be grossly visible.			
[ Alveolar/Bronchiolar Carcinoma TGLS = 11-2 ]			
[ Rhabdomyosarcoma TGLS = 12-2 ]			
* Lymph Node, Mesenteric		Rhabdomyosarcoma	Metastatic (Heart)
[ Rhabdomyosarcoma TGLS = 7-5 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 5-22 ]			
* Skin	Subcut Tiss	Rhabdomyosarcoma	Metastatic (Heart)
[ Rhabdomyosarcoma TGLS = 2-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 356	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 727
	<b>DOSE:</b> 312 PPM	<b>DISP:</b> Moribund Sacrifice	<b>HISTO:</b> 77344

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Tissue NOS	Abdominal	Rhabdomyosarcoma	Metastatic (Heart)
Note: Metastases are at multiple sites in abdominal cavity. [ Rhabdomyosarcoma TGLS = 4-7, 8-24 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 3-7 ]			

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PRIMARY CAUSE OF DEATH      - Heart    Rhabdomyosarcoma

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 357

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 312 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77345

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

Harderian Gland [ Adenoma TGLS = 5-23 ]		Adenoma	
* Kidney	Renal Tubule	Nephropathy Pigmentation	Minimal Minimal
* Liver Note: TGL 4-6 = No correlating lesion			
Mesentery [ Necrosis TGLS = 3-21 ]	Fat	Necrosis	Moderate
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			
[ Hyperplasia TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 358

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77346

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 2-21 ]		
* Ovary		Cyst	Moderate
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hydrometra TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 359

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77347

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Ovary		Cyst	Marked
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
		Leiomyoma	

[ Hyperplasia TGLS = 2-7 ]

[ Leiomyoma TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 360

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 312 PPM

DISP: Terminal Sacrifice

HISTO: 96-77348

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* 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	

OBSERVATIONS

Blood Vessel	Media, Pulmn Artery	Hyperplasia	Moderate
	Media, Pulmn Artery	Hypertrophy	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Mild

[ Hydrometra TGLS = 2-7 ]  
[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

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<b>ANIMAL ID:</b> 361	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 733
	<b>DOSE:</b> 625 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-77349

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**OBSERVATIONS**

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Thyroid Gland	C Cell	Adenoma	
Note: Adenoma is on slide #3.1.			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 362

TRT#: 6

DOSE: 625 PPM

SEX: Female

DISP: Natural Death

DAY ON TEST: 720

HISTO: 96-77350

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Islets, Pancreatic	* Lung	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Brain	* Lymph Node, Mandibular	* Pituitary Gland	
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Stomach, Forestomach	* Stomach, Glandular

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Mild
* Liver		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 5-6 ]			
Lymph Node	Iliac	Histiocytic Sarcoma	
	Mediastinal	Histiocytic Sarcoma	
	Pancreatic	Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 2-7 ]			
[ Histiocytic Sarcoma TGLS = 10-22 ]			
[ Histiocytic Sarcoma TGLS = 8-2 ]			
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 7-5 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 4-21 ]			
* Ovary		Angiectasis	Mild
* Spleen		Histiocytic Sarcoma	
[ Histiocytic Sarcoma TGLS = 3-6 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
[ Hyperplasia TGLS = 9-3 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 362

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 720

**DOSE:** 625 PPM

**DISP:** Natural Death

**HISTO:** 96-77350

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hyperplasia TGLS = 6-7 ]

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**PRIMARY CAUSE OF DEATH**

- Liver Histiocytic Sarcoma

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 363

TRT#: 6

SEX: Female

DAY ON TEST: 698

DOSE: 625 PPM

DISP: Natural Death

HISTO: 96-75679

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Pituitary Gland	* Salivary Glands
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

\* Parathyroid Gland

AUTO PRECLUDES DIAG.

\* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant	
* Bone Marrow		Hyperplasia	Moderate
* Brain		Lymphoma Malignant	
* Gallbladder		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 6-6 ]		
* Lung	Mediastinum	Lymphoma Malignant	
		Lymphoma Malignant	
Lymph Node	Iliac	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 13-2 ]		
	[ Lymphoma Malignant TGLS = 12-25 ]		
	[ Lymphoma Malignant TGLS = 9-24 ]		
	[ Lymphoma Malignant TGLS = 8-7 ]		
* Lymph Node, Mesenteric		Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 363	<b>TRT#:</b> 6 <b>DOSE:</b> 625 PPM	<b>SEX:</b> Female <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 698 <b>HISTO:</b> 96-75679
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**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Lymphoma Malignant TGLS = 5-5 ] Mesentery		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 4-23 ] * Ovary		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
Skeletal Muscle		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-22 ] * Skin	Subcut Tiss Subcut Tiss	Edema Lymphoma Malignant	Moderate
[ Edema TGLS = 1-21 ] * Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 7-6 ] * Stomach, Forestomach		Lymphoma Malignant	
* Stomach, Glandular		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Uterus		Hydrometra Lymphoma Malignant	Mild
[ Hydrometra TGLS = 11-7 ]			
PRIMARY CAUSE OF DEATH	- Liver	Lymphoma Malignant	
CONTRIBUTORY CAUSE OF DEATH	- Lung	Lymphoma Malignant	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 364

TRT#: 6

DOSE: 625 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 96-77351

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

Blood Vessel	Media, Pulmn Artery	Hypertrophy	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Congestion	Focal, Mild
		Hemorrhage	Focal, Mild
		Hepatocellular Adenoma	
[ Congestion TGLS = 4-6 ]			
[ Hemorrhage TGLS = 4-6 ]			
[ Hepatocellular Adenoma TGLS = 5-22 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 3-21 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
		Inflammation	Chronic, Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Polyp Stromal	
[ Hyperplasia TGLS = 1-7 ]			
[ Polyp Stromal TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 365	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 733
	<b>DOSE:</b> 625 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-77352

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
		Lymphoma Malignant	
	[ Hepatocellular Carcinoma TGLS = 7-23 ]		
	[ Lymphoma Malignant TGLS = 6-6, 8-24 ]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
	[ Alveolar/Bronchiolar Carcinoma TGLS = 11-2 ]		
Lymph Node	Bronchial	Lymphoma Malignant	
	Iliac	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 10-2 ]		
	[ Lymphoma Malignant TGLS = 9-25 ]		
	[ Lymphoma Malignant TGLS = 5-22 ]		
	[ Lymphoma Malignant TGLS = 4-21 ]		
* Mammary Gland		Hyperplasia	Mild
	[ Hyperplasia TGLS = 1-8 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 13-1 ]		
* Skin	Subcut Tiss	Fibrosis	Focal, Mild
	[ Fibrosis TGLS = 1-8 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 365	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 733
	<b>DOSE:</b> 625 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-77352

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen		Hematopoietic Cell Proliferation Hyperplasia	Marked Lymphoid, Mild
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Angiectasis Hyperplasia	Moderate Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 366

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77353

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 2-6 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
 Test Type: CHRONIC  
 Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Test Compound: Emodin  
 CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
 Time Report Requested: 03:18:42  
 First Dose M/F: NA / NA  
 Lab: SRI

ANIMAL ID: 367      TRT#: 6      SEX: Female      DAY ON TEST: 732  
 DOSE: 625 PPM      DISP: Terminal Sacrifice      HISTO: 96-77354

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Moderate
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Spleen		Hyperplasia	Lymphoid, Moderate
		Pigmentation	Focal, Mild
[ Pigmentation TGLS = 1-6 ]			
Tooth		Developmental Malformation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 368

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77355

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 2-21 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 369

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* 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	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-21 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 370	<b>TRT#:</b> 6 <b>DOSE:</b> 625 PPM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 732 <b>HISTO:</b> 96-77357
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 3-22 ]		Lymphoma Malignant	
* Kidney	Renal Tubule	Nephropathy Pigmentation Angiectasis	Mild Mild Marked
* Liver [ Angiectasis TGLS = 2-21 ]			
Lymph Node	Pancreatic	Lymphoma Malignant	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Ovary [ Angiectasis TGLS = 1-7 ]		Angiectasis	Moderate
* Pancreas [ Lipomatosis TGLS = 4-7 ]		Lipomatosis	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	Follicle	Cyst Degeneration	Moderate Cystic, Focal, Moderate
	Follicular Cel	Hyperplasia	Mild
[ Cyst TGLS = 5-3 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 371

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 370

**DOSE:** 625 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73674

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**OBSERVATIONS**

\* Kidney

Renal Tubule

Pigmentation

Minimal

\* Liver

Hepatocellular Adenoma

[ Hepatocellular Adenoma TGLS = 1-21 ]

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06

**Test Type:** CHRONIC

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin

**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 03:18:42

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

**Lab:** SRI

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**ANIMAL ID:** 372

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 370

**DOSE:** 625 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73675

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**OBSERVATIONS**

\* Kidney

Renal Tubule

Pigmentation

Minimal

\* Liver

Inflammation

Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 373

**TRT#:** 6  
**DOSE:** 625 PPM

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 370  
**HISTO:** 95-73676

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**OBSERVATIONS**

\* Kidney                      Renal Tubule  
\* Liver

Pigmentation  
Inflammation

Minimal  
Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 374

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 370

**DOSE:** 625 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73677

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**OBSERVATIONS**

\* Kidney

Nephropathy

Minimal

\* Liver

Inflammation

Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 375

**TRT#:** 6  
**DOSE:** 625 PPM

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 370  
**HISTO:** 95-73678

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**OBSERVATIONS**

\* Kidney                      Renal Tubule  
\* Liver

Pigmentation  
Inflammation

Minimal  
Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 376

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77358

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Lung	Bronchus, Glands	Cyst	Minimal
* Ovary		Cyst	Marked
[ Cyst TGLS = 1-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 377

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77359

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Minimal
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 1-21 ]			
* Ovary		Angiectasis	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
[ Hyperplasia TGLS = 2-22 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 378

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77360

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Metaplasia	Osseous, Focal, Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Angiectasis	Mild
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 379	<b>TRT#:</b> 6 <b>DOSE:</b> 625 PPM	<b>SEX:</b> Female <b>DISP:</b> Natural Death	<b>DAY ON TEST:</b> 625 <b>HISTO:</b> 96-74931
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**AUTO PRECLUDES DIAG.**

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

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
Mesentery		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-22 ]			
* Ovary		Cyst	Mild
[ Cyst TGLS = 6-7 ]			
* Pancreas	Acinus	Atrophy	Diffuse, Marked
	Duct	Cyst	Marked
		Lipomatosis	Marked
[ Cyst TGLS = 3-7 ]			
* Spleen		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-21 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 5-7 ]			

**PRIMARY CAUSE OF DEATH** - Spleen Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 380	<b>TRT#:</b> 6 <b>DOSE:</b> 625 PPM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 733 <b>HISTO:</b> 96-77361
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Brain [ Atrophy TGLS = 5-1 ]		Atrophy	Focal, Moderate
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	
* Lung [ Alveolar/Bronchiolar Adenoma TGLS = 4-21 ]		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Hyperplasia	Moderate
* Ovary [ Cystadenoma TGLS = 2-7 ]		Cystadenoma	
* Pituitary Gland [ Adenoma TGLS = 6-1 ]	Pars Distalis	Adenoma	
* Spleen [ Hematopoietic Cell Proliferation TGLS = 7-6 ] [ Hyperplasia TGLS = 7-6 ]		Hematopoietic Cell Proliferation Hyperplasia	Moderate Lymphoid, Moderate
* Thyroid Gland [ Hyperplasia TGLS = 3-3 ]	Follicular Cel	Hyperplasia	Diffuse, Marked
* Uterus [ Hyperplasia TGLS = 1-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 381

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 370

**DOSE:** 625 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73679

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**OBSERVATIONS**

\* Kidney

Nephropathy

Minimal

\* Liver

Inflammation

Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 382

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 370

**DOSE:** 625 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73680

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**OBSERVATIONS**

\* Kidney

Nephropathy

Minimal

\* Liver

Inflammation

Focal, Minimal

Mineralization

Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 383

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 370

**DOSE:** 625 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73681

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**OBSERVATIONS**

\* Kidney

Renal Tubule

Pigmentation

Minimal

\* Liver

Inflammation

Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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Animal Note: Gross photograph (color slide) taken at necropsy of TGL 2 (abdominal mass).

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 384

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 370

**DOSE:** 625 PPM

**DISP:** Scheduled Sacrifice

**HISTO:** 95-73682

---

**OBSERVATIONS**

\* Kidney

Renal Tubule

Nephropathy

Minimal

\* Liver

Pigmentation

Minimal

Inflammation

Focal, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 385	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 370
	<b>DOSE:</b> 625 PPM	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 95-73683

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Liver

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 386	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 733
	<b>DOSE:</b> 625 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-77362

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**OBSERVATIONS**

Harderian Gland [ Adenoma TGLS = 6-23 ]		Adenoma	
* Kidney	Renal Tubule	Nephropathy Pigmentation	Mild Minimal
* Liver [ Hepatocellular Adenoma TGLS = 5-22 ]		Hepatocellular Adenoma	
Mesentery [ Necrosis TGLS = 1-21 ]	Fat	Necrosis	Moderate
* Ovary [ Cyst TGLS = 3-7 ]		Cyst	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 387

TRT#: 6

DOSE: 625 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 96-77363

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	Multiple
		Hyperplasia	Lymphoid, Focal, Mild
	[ Hepatocellular Carcinoma TGLS = 4-22, 5-23 ]		
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
Mesentery	Fat	Necrosis	Moderate
	[ Necrosis TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Lymphoid, Moderate
	[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		
	[ Hyperplasia TGLS = 3-6 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 2-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 388

TRT#: 6

SEX: Female

DAY ON TEST: 673

DOSE: 625 PPM

DISP: Natural Death

HISTO: 96-75229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Pituitary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver	Hepatocyte	Fatty Change	Diffuse, Moderate
* Ovary			
Note: One ovary is missing.			
* Uterus		Hemangiosarcoma	
		Hydrometra	Marked
	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Polyp Stromal	
[ Hemangiosarcoma TGLS = 3-7 ]			
[ Hydrometra TGLS = 1-7 ]			
[ Polyp Stromal TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

- Uterus Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 389

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
Lymph Node	Pancreatic	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-21 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 390

TRT#: 6

SEX: Female

DAY ON TEST: 90

DOSE: 625 PPM

DISP: Accidentally Killed

HISTO: 95-71214

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
* Clitoral Gland		Degeneration	Cystic, Mild
Skeletal Muscle		Hemorrhage	Focal, Moderate
Note: Fracture of tibia, reported at necropsy, was not discernible in bone tissue on slide 21. A fracture likely was origin of hemorrhage of the skeletal muscle. [ Hemorrhage TGLS = 1-21, 2-22 ]			
* Thymus		Atrophy	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Hemorrhage

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 391

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Ovary		Angiectasis	Marked
[ Angiectasis TGLS = 3-7 ]			
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-6 ]			
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 392

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77366

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* 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		

OBSERVATIONS

* Kidney		Metaplasia	Osseous, Focal, Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 3-22 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 393

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77367

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 4-22 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 3-21 ]			
* Ovary		Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
	Follicular Cel	Hyperplasia	Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 2-7 ]			
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 394

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77368

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* 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	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
Lymph Node	Bronchial	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-21 ]			
* Uterus		Hydrometra	Marked
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 2-7 ]			
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 395

TRT#: 6

SEX: Female

DAY ON TEST: 658

DOSE: 625 PPM

DISP: Moribund Sacrifice

HISTO: 96-75030

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 4-22 ]			
* Ovary		Cyst	Mild
* Skin	Subcut Tiss	Fibrosarcoma	
[ Fibrosarcoma TGLS = 1-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
* Stomach, Glandular	Glands	Degeneration	Cystic, Focal, Minimal
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 396

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77369

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Thymus

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
* Ovary		Cyst	Marked
[ Cyst TGLS = 3-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 2-7 ]			
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 397

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77370

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Kidney	Renal Tubule	Pigmentation	Minimal
Mesentery [ Necrosis TGLS = 1-21 ]	Fat	Necrosis	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland [ Adenoma TGLS = 4-3 ]	Follicular Cel	Adenoma	
* Uterus [ Hyperplasia TGLS = 2-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 398

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77371

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* 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		

OBSERVATIONS

Harderian Gland [ Adenoma TGLS = 3-22 ]		Adenoma	
* Kidney	Renal Tubule	Nephropathy Pigmentation	Minimal Minimal
* Liver [ Hepatocellular Carcinoma TGLS = 2-21 ]		Hepatocellular Carcinoma	
* Uterus [ Hydrometra TGLS = 1-7 ]	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 399

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77372

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 5-22 ]		Lymphoma Malignant	
* Kidney	Renal Tubule	Nephropathy Pigmentation	Minimal Minimal
* Liver [ Hepatocellular Carcinoma TGLS = 3-21 ]		Hepatocellular Carcinoma	
* Lymph Node, Mesenteric [ Lymphoma Malignant TGLS = 4-5 ]		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
* Uterus	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 400

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77373

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Bone Note: Most of the osteosarcoma is in medullary cavity of femur.		Osteosarcoma	
* Intestine Small, Jejunum [ Hyperplasia TGLS = 3-21 ]	Peyers Patch	Hyperplasia	Lymphoid, Mild
* Kidney [ Cyst TGLS = 1-7 ]	Renal Tubule	Nephropathy Pigmentation Cyst	Minimal Minimal Moderate
* Ovary [ Cyst TGLS = 1-7 ]		Hydrometra Hyperplasia	Marked Cystic, Moderate
* Uterus [ Hydrometra TGLS = 2-7 ]	Endometrium		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 401

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77374

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* 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		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
Note: No test article-related pigment in kidney.			
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 2-21 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 402

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77375

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	Zymbal's Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 2-21 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 403

TRT#: 6

DOSE: 625 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 730

HISTO: 96-77376

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney	Renal Tubule	Accumulation, Hyaline Droplet Histiocytic Sarcoma	Moderate
	Renal Tubule	Nephropathy Pigmentation	Minimal Minimal
* Liver		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLS = 2-6 ]		
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLS = 5-5 ]		
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation Histiocytic Sarcoma	Marked
	[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		
	[ Histiocytic Sarcoma TGLS = 3-6 ]		
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus		Hemorrhage Hydrometra	Mild Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hemorrhage TGLS = 6-21 ]		
	[ Hydrometra TGLS = 4-7 ]		

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 404

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77377

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

**MISSING**

* Gallbladder	* Ovary
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**OBSERVATIONS**

* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 2-6 ]			
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thymus			
Note: Thymus is on slide 3.			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 405

TRT#: 6

SEX: Female

DAY ON TEST: 719

DOSE: 625 PPM

DISP: Natural Death

HISTO: 96-76497

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

\* Pituitary Gland

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Ovary			
Note: One ovary is missing.			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 406

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77378

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
	Hepatocyte	Vacuolization Cytoplasmic	Focal, Minimal
	[ Hepatocellular Carcinoma TGLS = 1-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 2-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 052111-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 407

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77379

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* 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		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	[ Hepatocellular Adenoma TGLS = 2-21 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 408	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 732
	<b>DOSE:</b> 625 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-77380

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Urinary Bladder			

**MISSING**

\* Trachea

**INSUFFICIENT TISSUE**

\* Pituitary Gland

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 2-21 ]		
* Ovary		Cyst	Mild
	[ Cyst TGLS = 3-7 ]		
* Pancreas	Acinus	Focal Cellular Change	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Hemangioma	
	Endometrium	Hydrometra	Moderate
		Hyperplasia	Cystic, Moderate
		Lymphangiectasis	Marked
	[ Hydrometra TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 409

TRT#: 6

DOSE: 625 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 96-77381

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Histiocytic Sarcoma	
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	
		Histiocytic Sarcoma	
		[ Hepatocellular Adenoma TGLS = 8-23 ]	
		[ Histiocytic Sarcoma TGLS = 6-6, 7-22 ]	
* Lung	Mediastinum	Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
Mesentery		Histiocytic Sarcoma	
	Fat	Necrosis	Moderate
		[ Necrosis TGLS = 5-21 ]	
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
		[ Hematopoietic Cell Proliferation TGLS = 4-6 ]	
Tooth		Adamantinoma Malignant	
Note: Adamantinoma is located adjacent to bone of skull and muscle of lip.			
* Uterus		Histiocytic Sarcoma	
		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
		[ Histiocytic Sarcoma TGLS = 3-24 ]	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 409

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77381

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hydrometra TGLS = 2-7 ]

[ Hyperplasia TGLS = 1-7 ]

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 410

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77382

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 411

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77383

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

Harderian Gland		Adenoma	
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Congestion	Focal, Mild
		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 7-23 ]		
* Lung		Hemorrhage	Mild
* Ovary	Bilateral	Cyst	Marked
	[ Cyst TGLS = 1-7, 2-7 ]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[ Adenoma TGLS = 5-1 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 3-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 412

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77384

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Bone Marrow		Hyperplasia	Lymphoid, Focal, Mild
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver	Hepatocyte	Fatty Change	Diffuse, Moderate
[ Fatty Change TGLS = 4-21 ]			
* Ovary		Cystadenoma	
[ Cystadenoma TGLS = 2-7 ]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 413

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77385

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Histiocytic Sarcoma	
		Hyperplasia	Cystic, Moderate

[ Histiocytic Sarcoma TGLS = 1-21 ]  
[ Hyperplasia TGLS = 2-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 414

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77386

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 415

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77387

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Carcinoma	
	[ Hepatocellular Carcinoma TGLS = 2-21 ]		
* Ovary		Cyst	Mild
* Skin	Subcut Tiss	Inflammation	Chronic, Focal, Mild
	Note: Inflammatory lesion of subcut tissue is on slide 8.		
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 416

TRT#: 6

SEX: Female

DAY ON TEST: 461

DOSE: 625 PPM

DISP: Natural Death

HISTO: 95-73916

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex  
\* Clitoral Gland  
\* Parathyroid Gland  
\* Thyroid Gland

\* Adrenal Medulla  
\* Esophagus  
\* Pituitary Gland  
\* Trachea

\* Bone  
\* Mammary Gland  
\* Salivary Glands

\* Brain  
\* Nose  
\* Skin

MISSING

\* Thymus

AUTO PRECLUDES DIAG.

\* Bone Marrow  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Spleen  
\* Uterus

\* Gallbladder  
\* Intestine Small, Duodenum  
\* Lymph Node, Mandibular  
\* Stomach, Forestomach

\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Ovary  
\* Stomach, Glandular

\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Pancreas  
\* Urinary Bladder

OBSERVATIONS

\* Heart  
\* Kidney  
  
\* Liver  
    [ Histiocytic Sarcoma TGLS = 2-6 ]  
\* Lung  
  Lymph Node  
    [ Histiocytic Sarcoma TGLS = 3-21 ]  
    [ Histiocytic Sarcoma TGLS = 4-22 ]  
\* Lymph Node, Mesenteric  
    [ Histiocytic Sarcoma TGLS = 5-5 ]

Renal Tubule  
  
  
Iliac  
Renal

Mineralization  
Histiocytic Sarcoma  
Pigmentation  
Histiocytic Sarcoma  
  
Histiocytic Sarcoma  
Histiocytic Sarcoma  
Histiocytic Sarcoma

Minimal  
  
Minimal

PRIMARY CAUSE OF DEATH

- Liver Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 417

TRT#: 6

DOSE: 625 PPM

SEX: Female

DISP: Natural Death

DAY ON TEST: 730

HISTO: 96-77388

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

INSUFFICIENT TISSUE

\* Thymus

OBSERVATIONS

Blood Vessel	Aorta	Mineralization	Moderate
* Kidney		Lymphoma Malignant	
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Minimal
	[ Lymphoma Malignant TGLS = 7-5, 8-5 ]		
* Liver		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
Lymph Node	Iliac	Lymphoma Malignant	
	Inguinal	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 12-22 ]		
	[ Lymphoma Malignant TGLS = 13-23 ]		
	[ Lymphoma Malignant TGLS = 11-24 ]		
	[ Lymphoma Malignant TGLS = 2-21 ]		
* Lymph Node, Mandibular		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 1-8 ]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 10-5 ]		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 417

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 625 PPM

**DISP:** Natural Death

**HISTO:** 96-77388

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Mesentery

Lymphoma Malignant

\* Spleen

Lymphoma Malignant

[ Lymphoma Malignant TGLS = 6-6 ]

\* Uterus

Endometrium

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLS = 5-7 ]

---

PRIMARY CAUSE OF DEATH

- Kidney Lymphoma Malignant

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 418

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77389

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* 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		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 2-21 ]			
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 419

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 625 PPM

DISP: Terminal Sacrifice

HISTO: 96-77390

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Hepatocellular Adenoma	Multiple
[ Hepatocellular Adenoma TGLS = 1-6, 2-21 ]			
* Lung		Hemorrhage	Minimal
[ Hemorrhage TGLS = 5-23 ]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
[ Hyperplasia TGLS = 3-22 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 4-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 420

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77391

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* 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

**OBSERVATIONS**

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Minimal
Harderian Gland	Bilateral	Carcinoma	
[ Carcinoma TGLS = 4-21, 5-22 ]			
* Kidney	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Minimal
* Liver		Hyperplasia	Lymphoid, Focal, Mild
* Spleen		Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 3-6 ]			
* Uterus	Endometrium	Hydrometra	Moderate
		Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 2-7 ]			
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 421

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77392

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Intestine Small, Ileum [ Lymphoma Malignant TGLS = 3-4 ]		Lymphoma Malignant	
* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 2-4-1 ]		Lymphoma Malignant	
* Kidney	Renal Tubule	Nephropathy Pigmentation Hyperplasia Cyst	Minimal Mild
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Ovary		Cyst	Moderate
* Spleen		Hyperplasia	Lymphoid, Mild
* Uterus [ Hyperplasia TGLS = 1-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 422	<b>TRT#:</b> 8 <b>DOSE:</b> 1250 PPM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 732 <b>HISTO:</b> 96-77393
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
[ Pigmentation TGLS = 2-5 ]			
Mesentery	Fat	Necrosis	Moderate
[ Necrosis TGLS = 3-21 ]			
* Ovary			
Note: One ovary is missing.			
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland		Cyst	Mild
	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 423

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 424

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77395

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Kidney	Renal Tubule	Nephropathy Pigmentation	Minimal Mild
* Ovary Note: One ovary is missing.			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus [ Hyperplasia TGLS = 1-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 425

TRT#: 8

SEX: Female

DAY ON TEST: 608

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 96-74797

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Gallbladder	* 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
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Capsule	Adenoma	
* Bone Marrow		Hyperplasia	Mild
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Lymphoma Malignant	
Lymph Node	Inguinal	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 3-22 ]		
	[ Lymphoma Malignant TGLS = 2-21 ]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 4-23 ]		
* Ovary		Cyst	Mild
* Pancreas		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 1-6 ]		
* Thymus		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 6-2 ]		
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 426

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77396

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Intestine Large, Cecum

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
[ Pigmentation TGLS = 3-5 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 2-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 427

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77397

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* 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		

**OBSERVATIONS**

* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Moderate
[ Pigmentation TGLS = 3-5 ]			
* Spleen		Hyperplasia	Lymphoid, Moderate
* Uterus		Hydrometra	Marked
	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Polyp Stromal	
[ Hydrometra TGLS = 2-7 ]			
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06  
 Test Type: CHRONIC  
 Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Test Compound: Emodin  
 CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
 Time Report Requested: 03:18:42  
 First Dose M/F: NA / NA  
 Lab: SRI

ANIMAL ID: 428

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77398

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Kidney	Renal Tubule	Accumulation, Hyaline Droplet Lymphoma Malignant Nephropathy	Mild  Moderate
	Renal Tubule	Pigmentation	Moderate
Note: Distribution of renal pigment in this mouse was unusual, in that epithelial cells of most of proximal tubules contained numerous fine pigment granules. [ Pigmentation TGLS = 6-5 ]			
* Liver		Hematopoietic Cell Proliferation	Mild
* Lung		Lymphoma Malignant	
Lymph Node	Iliac	Angiectasis	Marked
	Mediastinal	Angiectasis	Moderate
	Mediastinal	Histiocytic Sarcoma	
	Renal	Histiocytic Sarcoma	
	Iliac	Lymphoma Malignant	
[ Angiectasis TGLS = 11-24 ]			
[ Angiectasis TGLS = 9-23 ]			
[ Histiocytic Sarcoma TGLS = 11-24 ]			
[ Histiocytic Sarcoma TGLS = 8-22 ]			
[ Lymphoma Malignant TGLS = 9-23 ]			
* Lymph Node, Mandibular		Angiectasis Histiocytic Sarcoma	Moderate
[ Angiectasis TGLS = 12-8 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 428	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 734
	<b>DOSE:</b> 1250 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-77398

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Histiocytic Sarcoma TGLS = 12-8 ]			
* Lymph Node, Mesenteric		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 10-5 ]			
Mesentery		Hemangiosarcoma	
	Fat	Necrosis	Marked
[ Hemangiosarcoma TGLS = 2-21 ]			
[ Necrosis TGLS = 2-21 ]			
* Ovary		Cyst	Mild
[ Cyst TGLS = 5-7 ]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Salivary Glands		Lymphoma Malignant	
* Spleen		Hematopoietic Cell Proliferation	Marked
[ Hematopoietic Cell Proliferation TGLS = 3-6 ]			
* Thyroid Gland	Follicular Cel	Adenoma	Multiple
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 4-7 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 429

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77399

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Angiectasis	Mild
		Hemorrhage	Focal, Mild
	[ Angiectasis TGLS = 6-6, 7-6, 8-23 ]		
	[ Hemorrhage TGLS = 5-22 ]		
* Lymph Node, Mesenteric		Angiectasis	Moderate
	[ Angiectasis TGLS = 4-21 ]		
* Spleen		Hyperplasia	Lymphoid, Moderate
* Uterus		Cyst	Mild
		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
	[ Cyst TGLS = 1-7 ]		
	[ Hydrometra TGLS = 2-7 ]		
	[ Hyperplasia TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 430

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77400

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

\* Pituitary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Adenoma	
	[ Hepatocellular Adenoma TGLS = 2-21 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hydrometra TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 431

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77401

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Adrenal Cortex

\* Adrenal Medulla

\* Bone

\* Bone Marrow

\* Brain

\* Clitoral Gland

\* Esophagus

\* Gallbladder

\* Heart

\* Intestine Large, Cecum

\* Intestine Large, Colon

\* Intestine Large, Rectum

\* Intestine Small, Duodenum

\* Intestine Small, Ileum

\* Intestine Small, Jejunum

\* Islets, Pancreatic

\* Liver

\* Lung

\* Lymph Node, Mandibular

\* 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

OBSERVATIONS

\* Kidney

Nephropathy

Moderate

Renal Tubule

Pigmentation

Marked

[ Nephropathy TGLS = 1-5 ]

[ Pigmentation TGLS = 2-5 ]

\* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 432

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77402

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* 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

**OBSERVATIONS**

* Adrenal Cortex Note: One adrenal gland is missing.		Cyst	Mild
Harderian Gland [ Carcinoma TGLS = 3-22 ]		Carcinoma	
* Kidney	Renal Tubule	Nephropathy Pigmentation	Mild Mild
* Lymph Node, Mandibular Mesentery [ Necrosis TGLS = 1-21 ]	Fat	Hyperplasia Necrosis	Lymphoid, Moderate Mild
* Spleen [ Hyperplasia TGLS = 2-6 ]		Hyperplasia	Lymphoid, Moderate
* Uterus [ Hyperplasia TGLS = 4-7 ]	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 433

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77403

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Moderate
[ Pigmentation TGLS = 1-5 ]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Ovary		Cystadenoma	
[ Cystadenoma TGLS = 2-7 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Adenoma	
* Spleen		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 3-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
 Test Type: CHRONIC  
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Test Compound: Emodin  
 CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
 Time Report Requested: 03:18:42  
 First Dose M/F: NA / NA  
 Lab: SRI

ANIMAL ID: 434                      TRT#: 8                      SEX: Female                      DAY ON TEST: 733  
 DOSE: 1250 PPM                      DISP: Terminal Sacrifice                      HISTO: 96-77404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[ Pigmentation TGLS = 2-5 ]			
* Ovary		Luteoma	
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 1-6 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 435

TRT#: 8

SEX: Female

DAY ON TEST: 604

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 96-74798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                             |                          |                            |                           |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex            | * Adrenal Medulla        | * Bone                     | * Bone Marrow             |
| * Brain                     | * Clitoral Gland         | * Esophagus                | * Gallbladder             |
| * 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 | * Mammary Gland            | * Nose                    |
| * Ovary                     | * Pancreas               | * Parathyroid Gland        | * Pituitary Gland         |
| * Salivary Glands           | * Skin                   | * Spleen                   | * Stomach, Forestomach    |
| * Stomach, Glandular        | * Thymus                 | * Trachea                  | * Urinary Bladder         |
| * Uterus                    |                          |                            |                           |

OBSERVATIONS

- |                           |              |              |                              |
|---------------------------|--------------|--------------|------------------------------|
| Harderian Gland           |              | Carcinoma    |                              |
| [ Carcinoma TGLS = 1-21 ] |              |              |                              |
| * Kidney                  |              | Nephropathy  | Minimal                      |
|                           | Renal Tubule | Pigmentation | Mild                         |
| * Liver                   | Hepatocyte   | Fatty Change | Diffuse, Moderate            |
| * Lung                    |              | Carcinoma    | Metastatic (Harderian Gland) |
| * Thyroid Gland           |              | Degeneration | Cystic, Focal, Mild          |

PRIMARY CAUSE OF DEATH

- Harderian Gland Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:42  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 436

TRT#: 8

SEX: Female

DAY ON TEST: 670

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 96-75136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

\* Clitoral Gland

AUTO PRECLUDES DIAG.

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

OBSERVATIONS

* Bone Marrow		Lymphoma Malignant	
* Kidney	Renal Tubule	Lymphoma Malignant	Minimal
		Pigmentation	
* Liver		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
Lymph Node	Pancreatic	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-7 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
Mesentery		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 1-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 3-7 ]			

PRIMARY CAUSE OF DEATH

- Lymph Node Pancreatic Lymphoma Malignant

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 437

TRT#: 8

SEX: Female

DAY ON TEST: 724

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 96-77405

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Pituitary Gland

OBSERVATIONS

* Intestine Large, Cecum [ Leiomyosarcoma TGLS = 3-21 ]		Leiomyosarcoma	
* Kidney	Renal Tubule	Nephropathy Pigmentation	Minimal Mild
* Uterus [ Hydrometra TGLS = 2-7 ]	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Mild

PRIMARY CAUSE OF DEATH

- Intestine Large, Cecum Leiomyosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 438

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77406

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 3-22 ]		Lymphoma Malignant	
* Kidney	Renal Tubule	Nephropathy Pigmentation	Mild Mild
* Liver		Hepatocellular Adenoma	
* Lymph Node, Mesenteric [ Hemorrhage TGLS = 2-21 ]		Hemorrhage Lymphoma Malignant	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Lymphoma Malignant	
* Uterus [ Hyperplasia TGLS = 1-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 439

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77407

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone		Osteosarcoma	
Note: Osteosarcoma is on slide 9, mainly in marrow cavity of bone adjacent to root of upper incisor.			
Harderian Gland		Adenoma	
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 3-21 ]			
* Ovary			
Note: One ovary is missing.			
* Parathyroid Gland		Vacuolization Cytoplasmic	Focal, Mild
* Spleen		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 2-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 440

TRT#: 8

SEX: Female

DAY ON TEST: 693

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 96-75680

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Gallbladder	* Heart	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Adrenal Cortex [ Inflammation TGLS = 3-10 ]		Inflammation	Chronic, Focal, Mild
Blood Vessel	Aorta	Mineralization	Mild
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Infiltration Cellular	Mixed Cell, Mild
* Lung	Mediastinum	Infiltration Cellular	Mixed Cell, Mild
Lymph Node	Mediastinal	Hyperplasia	Moderate
	Renal	Hyperplasia	Moderate
[ Hyperplasia TGLS = 5-2 ]			
[ Hyperplasia TGLS = 6-21 ]			
* Lymph Node, Mesenteric		Hyperplasia	Moderate
Mesentery		Inflammation	Chronic, Marked
[ Inflammation TGLS = 10-22 ]			
* Ovary		Cyst	Marked
		Inflammation	Suppurative, Marked
[ Cyst TGLS = 8-7 ]			
[ Inflammation TGLS = 9-7 ]			
Skeletal Muscle		Inflammation	Suppurative, Moderate

Note: Inflammation in abdominal cavity extended to muscle of abdominal wall.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 440	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 693
	<b>DOSE:</b> 1250 PPM	<b>DISP:</b> Natural Death	<b>HISTO:</b> 96-75680

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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* Spleen [ Hematopoietic Cell Proliferation TGLS = 2-6 ]	Hematopoietic Cell Proliferation	Moderate
* Thymus [ Inflammation TGLS = 4-2 ]	Inflammation	Mild
* Thyroid Gland	Degeneration	Cystic, Focal, Mild
* Uterus [ Inflammation TGLS = 7-7 ]	Inflammation	Suppurative, Marked

---

PRIMARY CAUSE OF DEATH - Uterus Inflammation

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 441

**TRT#:** 8  
**DOSE:** 1250 PPM

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 370  
**HISTO:** 95-73684

---

**OBSERVATIONS**

\* Kidney

Renal Tubule

Nephropathy  
Pigmentation

Mild  
Moderate

[ Pigmentation TGLS = 2-5 ]

\* Liver

Inflammation

Focal, Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 442

**TRT#:** 8  
**DOSE:** 1250 PPM

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 370  
**HISTO:** 95-73685

---

**OBSERVATIONS**

\* Kidney

Renal Tubule

Nephropathy  
Pigmentation

Mild  
Mild

[ Pigmentation TGLS = 2-5 ]

\* Liver

Inflammation

Focal, Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 443

**TRT#:** 8  
**DOSE:** 1250 PPM

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 370  
**HISTO:** 95-73686

---

**OBSERVATIONS**

\* Kidney

Renal Tubule

Nephropathy  
Pigmentation

Mild  
Mild

[ Pigmentation TGLS = 2-5 ]

\* Liver

Inflammation

Focal, Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 444	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 370
	<b>DOSE:</b> 1250 PPM	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 95-73687

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**OBSERVATIONS**

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
Note: Gross photograph (color slide) taken at necropsy of cut surface of left kidney, with similar kidney specimen from mouse UF 287 shown in same photograph. [ Pigmentation TGLS = 1-5 ]			
* Liver		Inflammation	Focal, Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 445	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 370
	<b>DOSE:</b> 1250 PPM	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 95-73688

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**OBSERVATIONS**

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
Note: Gross photograph (color slide) taken at necropsy of cut surface of left kidney, with similar kidney specimen from mouse UF 288 shown in same photograph. [ Pigmentation TGLS = 1-5 ]			
* Liver		Inflammation	Focal, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 446

TRT#: 8

SEX: Female

DAY ON TEST: 680

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 96-75550

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Gallbladder	* 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
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Histiocytic Sarcoma	
* Bone Marrow		Hyperplasia	Mild
* Kidney		Histiocytic Sarcoma	
	Renal Tubule	Nephropathy	Moderate
	[ Pigmentation TGLS = 4-5 ]	Pigmentation	Marked
* Liver		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLS = 5-6 ]	Necrosis	Focal, Marked
* Lung	Mediastinum	Histiocytic Sarcoma	
		Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Hemorrhage	Mild
	[ Histiocytic Sarcoma TGLS = 6-5 ]	Histiocytic Sarcoma	
* Spleen		Histiocytic Sarcoma	
	[ Histiocytic Sarcoma TGLS = 2-6 ]		
* Thymus		Histiocytic Sarcoma	
* Thyroid Gland		Degeneration	Cystic, Focal, Mild

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 052111-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 447

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77408

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Ovary		Cyst	Moderate
[ Cyst TGLS = 2-7 ]			
* Spleen		Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 3-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 448

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77409

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* 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	

**OBSERVATIONS**

* Adren Cortex			
Note: One adrenal gland is missing.			
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:42

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 449

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77410

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adren Cortex			
Note: One adrenal gland is missing.			
* Intestine Small, Jejunum		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 5-21 ]			
* Kidney	Renal Tubule	Nephropathy Pigmentation	Minimal Mild
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 3-5 ]			
* Spleen		Hematopoietic Cell Proliferation Hyperplasia	Moderate Lymphoid, Mild
[ Hematopoietic Cell Proliferation TGLS = 4-6 ]			
[ Hyperplasia TGLS = 4-6 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06  
 Test Type: CHRONIC  
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Test Compound: Emodin  
 CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
 Time Report Requested: 03:18:43  
 First Dose M/F: NA / NA  
 Lab: SRI

ANIMAL ID: 450                      TRT#: 8                      SEX: Female                      DAY ON TEST: 731  
 DOSE: 1250 PPM                      DISP: Terminal Sacrifice                      HISTO: 96-77411

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Pituitary Gland

OBSERVATIONS

* Brain		Atrophy	Focal, Mild
[ Atrophy TGLS = 13-1 ]			
* Intestine Large, Rectum		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver	Hepatocyte	Fatty Change	Diffuse, Marked
		Lymphoma Malignant	
		Tension Lipidosis	Marked
[ Fatty Change TGLS = 8-6 ]			
* Lung	Mediastinum	Lymphoma Malignant	
		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 11-2 ]			
Lymph Node	Iliac	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 7-23 ]			
[ Lymphoma Malignant TGLS = 12-3-1 ]			
[ Lymphoma Malignant TGLS = 6-22 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:43  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 450	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 1250 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 96-77411

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Lymphoma Malignant TGLS = 5-7 ]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 10-5 ]			
Mesentery		Lymphoma Malignant	
[ Lymphoma Malignant TGLS = 2-21 ]			
Oviduct		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 3-7 ]			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 451

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77412

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Ovary		Cyst	Moderate
* Pancreas	Duct	Cyst	Moderate
		Lipomatosis	Moderate
	[ Cyst TGLS = 2-21 ]		
* Spleen		Lymphoma Malignant	
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:43  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 452

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 515

**DOSE:** 1250 PPM

**DISP:** Natural Death

**HISTO:** 96-74149

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**OBSERVATIONS**

* Bone Marrow		Angiectasis	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Ovary		Cyst	Moderate
[ Cyst TGLS = 2-21 ]			
* Uterus		Angiectasis	Mild
		Hydrometra	Marked
[ Hydrometra TGLS = 1-7 ]			

**PRIMARY CAUSE OF DEATH**

- UNCERTAIN

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 453

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 3-2 ]		
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Ovary		Cyst	Moderate
* Spleen		Lymphoma Malignant	
	[ Lymphoma Malignant TGLS = 2-6 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 454

TRT#: 8

SEX: Female

DAY ON TEST: 734

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77414

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Cyst	Mild
		Hepatocellular Carcinoma	Multiple
	[ Cyst TGLS = 5-21 ]		
	[ Hepatocellular Carcinoma TGLS = 4-6, 6-6, 7-22 ]		
* Pancreas	Duct	Cyst	Moderate
		Lipomatosis	Marked
	[ Cyst TGLS = 2-7 ]		
	[ Lipomatosis TGLS = 3-7 ]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hyperplasia TGLS = 1-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 455

TRT#: 8

SEX: Female

DAY ON TEST: 646

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 96-75010

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Gallbladder	* 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
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	Peripheral Nerve	* Pituitary Gland	* Salivary Glands
* Skin	Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hemangiosarcoma	
* Clitoral Gland		Degeneration	Cystic, Mild
[ Degeneration TGLS = 1-8-1 ]			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Marked
* Liver		Hepatocellular Carcinoma	
[ Hepatocellular Carcinoma TGLS = 3-21 ]			
* Ovary		Cyst	Mild
Skeletal Muscle		Hemangiosarcoma	
[ Hemangiosarcoma TGLS = 4-22 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 456

TRT#: 8

SEX: Female

DAY ON TEST: 681

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 96-75551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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
* Pancreas	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
[ Pigmentation TGLS = 3-5 ]			
* Liver	Hepatocyte	Fatty Change	Diffuse, Moderate
		Hepatocellular Adenoma	
[ Hepatocellular Adenoma TGLS = 5-22 ]			
* Lung		Alveolar/Bronchiolar Adenoma	
[ Alveolar/Bronchiolar Adenoma TGLS = 6-2 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 4-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Cyst	Marked
[ Cyst TGLS = 7-23 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

- Thymus Cyst

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 457

TRT#: 8

SEX: Female

DAY ON TEST: 709

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 96-76257

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Trachea
* Urinary Bladder			

MISSING

\* Thymus

OBSERVATIONS

* Brain		Atrophy	Focal, Moderate
[ Atrophy TGLS = 16-1 ]			
* Kidney	Renal Tubule	Dilatation	Moderate
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Marked
[ Dilatation TGLS = 3-5 ]			
[ Nephropathy TGLS = 3-5 ]			
[ Pigmentation TGLS = 3-5 ]			
* Liver	Centrilobular, Hepatocyte	Cytomegaly	Moderate
		Hepatocellular Adenoma	
		Necrosis	Focal, Minimal
[ Cytomegaly TGLS = 10-6 ]			
* Lung	Mediastinum	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Alveolar/Bronchiolar Carcinoma	Multiple
[ Alveolar/Bronchiolar Carcinoma TGLS = 15-2 ]			
[ Alveolar/Bronchiolar Carcinoma TGLS = 14-25 ]			
Lymph Node	Iliac	Angiectasis	Moderate
	Renal	Angiectasis	Moderate
[ Angiectasis TGLS = 12-22 ]			
[ Angiectasis TGLS = 13-23 ]			

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 457

TRT#: 8

SEX: Female

DAY ON TEST: 709

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 96-76257

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [ Angiectasis TGLS = 6-5 ]		Angiectasis	Moderate
* Mammary Gland [ Hyperplasia TGLS = 2-8 ]		Hyperplasia	Marked
Mesentery [ Necrosis TGLS = 5-21 ]	Fat	Necrosis	Mild
* Pituitary Gland Note: Adenoma of pituitary gland consists of two distinct zones, one of which is pure acidophil adenoma. [ Adenoma TGLS = 17-1 ]	Pars Distalis	Adenoma	
Skeletal Muscle [ Alveolar/Bronchiolar Carcinoma TGLS = 9-24 ]		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Spleen [ Hematopoietic Cell Proliferation TGLS = 4-6 ]		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular * Thyroid Gland	Glands	Degeneration	Cystic, Focal, Mild
Ureter Note: Serosal nodule of forestomach reported at necropsy was not available for microscopic examination (TGL #11).		Degeneration	Cystic, Focal, Mild
* Uterus [ Hyperplasia TGLS = 1-7 ]	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:43  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 458

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77415

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone		Fibrous Osteodystrophy	Moderate
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
* Ovary		Cyst	Moderate
[ Cyst TGLS = 2-7 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 459

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77416

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

\* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Cyst	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Congestion	Focal, Minimal
[ Congestion TGLS = 3-21 ]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 460

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77417

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Pituitary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
	[ Alveolar/Bronchiolar Carcinoma TGLS = 3-2 ]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Marked
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hydrometra TGLS = 1-7 ]		
	[ Hyperplasia TGLS = 2-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 461

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* 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	

OBSERVATIONS

Blood Vessel	Media, Pulmn Artery	Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:43  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 462

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 96-77419

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* 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	* Mammary Gland	* 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
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Hepatocellular Carcinoma	Multiple
		Pigmentation	Focal, Minimal
	[ Hepatocellular Carcinoma TGLS = 3-21, 4-22 ]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Note: Multiple metastatic tumors, hepatocellular carcinomas, are in lung.		
	[ Hepatocellular Carcinoma TGLS = 5-2 ]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[ Hematopoietic Cell Proliferation TGLS = 2-6 ]		
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate
	[ Hydrometra TGLS = 1-7 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 463

TRT#: 8

SEX: Female

DAY ON TEST: 525

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 96-74442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Thyroid Gland	* Trachea	

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Epithelium, Renal Tubule	Pigmentation	Marked
	Renal Tubule	Pigmentation	Minimal
	Note: Fine pigment granules in many proximal tubules of kidney cortex may consist at least partially of excess hemosiderin from ovarian hemorrhage.		
* Liver	Centrilobular	Vacuolization Cytoplasmic	Moderate
* Ovary		Cyst	Marked
		Hemorrhage	Marked
	[ Cyst TGLS = 2-21 ]		
	[ Hemorrhage TGLS = 2-21 ]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[ Hematopoietic Cell Proliferation TGLS = 3-6 ]		
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH - Ovary Hemorrhage

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 464

TRT#: 8

SEX: Female

DAY ON TEST: 445

DOSE: 1250 PPM

DISP: Natural Death

HISTO: 95-73885

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Trachea

MISSING

\* Lymph Node, Mesenteric

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	Lymph Node	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Spleen	* Stomach, Glandular	* Thyroid Gland
* Urinary Bladder			

OBSERVATIONS

Blood Vessel		
Note: Aorta is missing.		
* Bone Marrow		Histiocytic Sarcoma
* Liver		Histiocytic Sarcoma
[ Histiocytic Sarcoma TGLS = 3-6 ]		
* Lung	Mediastinum	Histiocytic Sarcoma
		Histiocytic Sarcoma
Mesentery		Histiocytic Sarcoma
* Uterus		Histiocytic Sarcoma
[ Histiocytic Sarcoma TGLS = 1-7, 2-7 ]		

PRIMARY CAUSE OF DEATH

- Uterus Histiocytic Sarcoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 465

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77420

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Gallbladder	* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Focal, Mild
* Adrenal Medulla		Hyperplasia	Mild
* Kidney	Renal Tubule	Nephropathy	Mild
		Pigmentation	Moderate
[ Pigmentation TGLS = 4-5 ]			
* Liver		Hepatocellular Carcinoma	Multiple
[ Hepatocellular Carcinoma TGLS = 3-21, 5-22 ]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Lymphoid, Mild
* Uterus	Endometrium	Hydrometra	Marked
		Hyperplasia	Cystic, Moderate
[ Hydrometra TGLS = 1-7 ]			
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:43  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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<b>ANIMAL ID:</b> 466	<b>TRT#:</b> 8 <b>DOSE:</b> 1250 PPM	<b>SEX:</b> Female <b>DISP:</b> Scheduled Sacrifice	<b>DAY ON TEST:</b> 370 <b>HISTO:</b> 95-73689
<b>OBSERVATIONS</b>			
* Kidney	Renal Tubule	Pigmentation	Minimal
* Liver		Congestion	Focal, Mild
		Inflammation	Focal, Minimal
<b>PRIMARY CAUSE OF DEATH</b>	-		

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:43  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 467

**TRT#:** 8  
**DOSE:** 1250 PPM

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 370  
**HISTO:** 95-73690

---

**OBSERVATIONS**

\* Kidney

Renal Tubule

Nephropathy  
Pigmentation  
Inflammation

Minimal  
Minimal  
Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:43  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 468	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 370
	<b>DOSE:</b> 1250 PPM	<b>DISP:</b> Scheduled Sacrifice	<b>HISTO:</b> 95-73691

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

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**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:43  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 469

**TRT#:** 8  
**DOSE:** 1250 PPM

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 370  
**HISTO:** 95-73692

---

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Inflammation	Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05211-06  
**Test Type:** CHRONIC  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Emodin  
**CAS Number:** 518-82-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 03:18:43  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 470

**TRT#:** 8  
**DOSE:** 1250 PPM

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 370  
**HISTO:** 95-73693

---

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Inflammation	Focal, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 471

TRT#: 8

SEX: Female

DAY ON TEST: 695

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 96-75681

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Gallbladder	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Intestine Small, Jejunum		Leiomyosarcoma	
[ Leiomyosarcoma TGLS = 6-23 ]			
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver	Hepatocyte	Fatty Change	Diffuse, Moderate
Mesentery		Leiomyosarcoma	Metastatic (Intestine Small, Jejunum)
[ Leiomyosarcoma TGLS = 4-21 ]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular		Erosion	Minimal
Tissue NOS	Abdominal	Leiomyosarcoma	Metastatic (Intestine Small, Jejunum)
[ Leiomyosarcoma TGLS = 5-22 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
Note: No tissue identifiable as cervix was observed.			
[ Hyperplasia TGLS = 2-7 ]			

PRIMARY CAUSE OF DEATH

- Intestine Small, Jejunum Leiomyosarcoma

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 472

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate

[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:43  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 473

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77422

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Adenoma	
* Ovary		Angiectasis	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicular Cel	Hyperplasia	Mild
* Uterus		Cyst	Moderate
	Endometrium	Hyperplasia	Cystic, Marked

[ Cyst TGLS = 2-7 ]  
[ Hyperplasia TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 474

TRT#: 8

SEX: Female

DAY ON TEST: 681

DOSE: 1250 PPM

DISP: Moribund Sacrifice

HISTO: 96-75552

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Pituitary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
Lymph Node	Inguinal	Hyperplasia	Lymphoid, Moderate
* Mammary Gland		Carcinoma	
[ Carcinoma TGLS = 1-21 ]			
* Spleen		Angiectasis	Mild
		Hematopoietic Cell Proliferation	Moderate
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Polyp Stromal	
[ Hyperplasia TGLS = 4-7 ]			

PRIMARY CAUSE OF DEATH

- Mammary Gland Carcinoma

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 475

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Small, Jejunum [ Lymphoma Malignant TGLS = 4-22 ]		Lymphoma Malignant	
* Kidney [ Pigmentation TGLS = 2-5 ]	Renal Tubule	Nephropathy Pigmentation	Mild Mild
* Liver [ Hemangiosarcoma TGLS = 3-21 ]		Hemangiosarcoma	
* Ovary		Angiectasis	Mild
* Pituitary Gland [ Adenoma TGLS = 6-1 ]	Pars Distalis	Adenoma	
* Spleen [ Hematopoietic Cell Proliferation TGLS = 1-6 ]		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland [ Hyperplasia TGLS = 5-3 ]	Follicular Cel	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 476

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77424

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Pituitary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Eosinophilic Focus	
		Hepatocellular Adenoma	
	[ Eosinophilic Focus TGLS = 1-21, 2-22 ]		
	[ Hepatocellular Adenoma TGLS = 3-23 ]		
* Skin	Subcut Tiss	Fibrosis	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Marked
	[ Hyperplasia TGLS = 4-7 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 477

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77425

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* 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	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver		Hemorrhage	Focal, Mild
[ Hemorrhage TGLS = 3-21 ]			
* Pituitary Gland		Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
[ Hematopoietic Cell Proliferation TGLS = 2-6 ]			
* Thyroid Gland		Degeneration	Cystic, Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:43  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 478

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77426

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

\* Ovary

OBSERVATIONS

* Brain [ Atrophy TGLS = 4-1 ]		Atrophy	Focal, Moderate
* Kidney		Nephropathy	Minimal
Mesentery [ Necrosis TGLS = 2-21 ]	Renal Tubule	Pigmentation	Mild
	Fat	Necrosis	Mild
* Pituitary Gland [ Adenoma TGLS = 5-1 ]	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Marked
* Uterus [ Hyperplasia TGLS = 1-7 ]	Endometrium	Hyperplasia	Cystic, Marked

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05211-06

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 10/22/2014

Time Report Requested: 03:18:43

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 479

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hyperplasia	Lymphoid, Mild
* Thyroid Gland		Degeneration	Cystic, Focal, Moderate
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Moderate

[ Hydrometra TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05211-06  
Test Type: CHRONIC  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Emodin  
CAS Number: 518-82-1

Date Report Requested: 10/22/2014  
Time Report Requested: 03:18:43  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 480

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 1250 PPM

DISP: Terminal Sacrifice

HISTO: 96-77428

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* 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	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
[ Hyperplasia TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

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\*\* END OF REPORT \*\*

\* PROTOCOL REQUIRED TISSUE